1994

The Uniform Soybean Tests: Northern Region 1994

J. R. Wilcox
USDA-ARS

THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

1994

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INTRODUCTION

The purpose of the Uniform Soybean Tests is to critically evaluate the best of the experimental soybean lines developed by federal and state research personnel in the U.S. and Canada, for their potential release as new varieties.

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains for the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued separately.

Data from the Uniform Soybean Tests form the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to evaluate the experimental strains for one year before they are entered in the Uniform Tests. Uniform Tests are grown at a larger number of locations with more replications than Preliminary Tests.

The Uniform Soybean Test Report is a progress report containing statements which may or may not be verified by subsequent experiments. Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

The USDA-Agricultural Research Service does not vouch for the authenticity of either the parentage or ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in the Uniform Soybean Test Report.

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POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

1) Experimental lines entered in the Uniform Tests (including Preliminary Tests) must be free of restrictions on their potential release as varieties or their use as parents in biparental crosses or as parents in recurrent selection programs.

2) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research.

1) Seed of Uniform Test entries is for evaluation in the Uniform Tests only and may not be distributed to non-participants in these tests without the approval of the originator of the entry.

2) Entries in the Uniform Test may be used by Uniform Test participants as parents only in biparental crosses or in developing recurrent selection populations.

3) The originator of a Uniform Test entry must be contacted prior to the use of any entry as a recurrent parent in backcrossing, in any breeding or genetic studies, or for any other research.

4) Experimental strains entered in the Uniform Tests should be labelled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.

Release of Uniform Test entries.

1) Entries in the Uniform Test are released according to USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government policies.

2) Any state or province participating in the Uniform Test is offered the opportunity to participate in the release of any Uniform Test entry proposed for release.

3) Entries may be released on a restricted basis or on a contractual basis only after Uniform Test participants have been offered the opportunity to participate in the release of the entry.

4) Restricted or contractual releases cannot impose any restrictions on the prior use of an entry as a parent by Uniform Test participants.

STRAIN DESIGNATION

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experimental station agronomists cooperating with the U.S. Department of Agriculture.

A	Iowa A.E.S. (AC - S. Cianzio, AM - L. Mansur)
Ar	Arizona A.E.S.
Au	Alabama A.E.S.
B	California
C	Purdue (Indiana) A.E.S.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, U.S.D.A.
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC - R. L. Cooper, HM - B. A. McBlain, HF -R. Fioritto, HS - S. K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (L - R. L. Bernard, LG - R. Nelson, LL - S. M. Lim, LN - C. D. Nickell)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
Ok	Oklahoma A.E.S.
ORC	Ridgetown College, Ontario
OT	Central Experimental Farm, Ottawa, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
S	Missouri A.E.S. (SO - P. Owen)
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
SL	Two or more states cooperatively
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, U.S.D.A., Urbana, IL
U	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.

METHODS

Uniform Tests are planted in multiple-row plots with three or four replications and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots (the center rows harvested) with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. At the Soybean Workers Conference in Memphis, Tennessee, on February 24 and 25, 1976, the Northern Breeders discussed and made the following recommendation: Only data from bordered row plots will be included in the regional means. Yield means will not be included in regional means if they do not have a CV value. Discretion will be used when including values that have a high CV. If the CV value is high (greater than 15), participants should include the reason, such as disease or environmental conditions. Lines will be allowed to be heterogeneous the first year in the Uniform Soybean Tests but must be a pure line the second year of testing. It is up to the breeder to clean up heterogeneous lines. If the breeder plans on purifying the line, please so indicate, and the line will be marked so that when test participants vote on it for further testing they will know it will be purified.

Generation Composited is the generation after the final single-plant selection in which the line is composited.

Previous Testing. The number of previous years in the same Uniform Test is given, or, in the case of new entries, a reference to last year's test, abbreviated UT 0 for Uniform Test 0, PT III for Preliminary Test III, etc.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre (to convert to kilograms/hectare multiply by 67.25).

Maturity is the date when 95% of the pods have ripened. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier (E) and one later (L) check variety are given on the maturity table for each test. Current reference and check varieties and the maturity group limits relative to the reference varieties are:

Group	Reference	Range	Early Check	Late Check
00	McCall	-7 to +5		Agassiz (L)
0	Lambert	-6 to +2	Agassiz (00)	Parker (I)
I	Parker	-4 to +4	Lambert (0)	Sturdy (L)
II	Kenwood 94	-4 to +4	Sturdy (I)	IA2007 (L)
III	Resnik	-4 to +4	IA2007 (II)	Flyer (IV)
IV	Spencer	-4 to +7	Flyer (E)	KS4694 (L)

These maturity group ranges are based on long-time means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures. Additional check entries may be included in specific tests such as Archer (BSR) for incidence of brown stem rot or Charleston (dtl) as a determinate check.

Lodging is rated at maturity according to the following scores:

1 Almost all plants erect.
2 All plants leaning slightly or a few plants down.
3 All plants leaning moderately (45°), or 25% to 50% of the plants down.
4 All plants leaning considerably, or 50% to 80% of the plants down.
5 Almost all plants down.

Height is the average length in inches of mature plants from the ground to the tip of the main stem. (To convert to centimeters, multiply by 2.54).

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. (Threshing or handling damage is not considered, nor is mottling or other pigment).

1 Very Good 2 Good 3 Fair 4 Poor 5 Very Poor

Seed Size (i.e., weight per seed) in grams per 100 based on a 100- or 200-seed sample. (To convert to seeds per pound, divide this into 45,359.2).

Seed Composition is measured on samples submitted to the National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured using near infrared transmittance, and reported on a moisture-free basis.

Descriptive Code: 1 2 3 4 5 6, abbreviated as underlined below:

1 = Flower Color: Purple, White
2 = Pubescence Color: Tawny, Gray, Light tawny
3 = Pod Color: Brown, Tan
4 = Seed Coat Luster: Dull, Shiny, Intermediate
5 = Seed Coat Color: Yellow, Gray, Light gray, Green
6 = Hilum Color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow; prefixes indicate Light or Dark shades, e.g., Lbf = light buff, Dib = dark imperfect black.
7 = Stem termination: Determinate, Indeterminate, Semi-Determinate

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

1 No shattering
2 1% to 10% shattered
3 10% to 25% shattered
4 25% to 50% shattered
5 Over 50% shattered

Iron Chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence Score is related to hypocotyl elongation and is measured at Ames, Iowa by germination at 25°C (a critical temperature for differentiating strains). Four replications of 25 seeds/entry are planted in a 5-inch plastic pot, at a 4 1/2 - inch depth in sand. Only the seedlings which have emerged by 12 days after planting are counted. Emergence score in relation to % of seeds which germinate and emerge are as follows:

1 $\geq$ 95%
2 = 91 - 95%
3 = 85 - 90%
4 = 76 - 84%
5 < 76

DISEASE

Disease reactions are listed according to "Soybean Disease Survey Standards", March 1960, unless otherwise specified. Disease reaction is scored from 1 (no disease) to 5 (very severe), or in some cases as percent infected or simply as + (present) or 0 (absent). Purple seed stain and seed mottling follow the disease severity class rating:

Disease severity class rating	1	2	3	4	5
Number of diseased seed in sample	0	1-3%	4-8%	9-19%	20-100%

An additional classification to describe the extent of seedcoat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week delayed ("d") harvest sample. The location where the test was made is identified in the column heading, and the letter "a" or "n" signifies artificial or natural infection. Clearcut and consistent reactions are given by letter instead of number: R = resistant, S = susceptible, I = intermediate, and H = heterogeneous. Natural infection ratings are from agronomic tests in some instances and from special disease planting in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

Abbreviation	Disease	Pathogen
BB	Bacterial blight	Pseudomonas syringa pv. glycinea
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas campestris pv. phaseoli
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregata
BTS	Bacterial tan spot	Corynebacterium flaccumfaciens
CN	Cyst nematode	Heterodera glycines
CR	Charcoal rot	Macrophomina phaseolina
DM	Downy mildew	Peronospora manshurica
FE_1, FE_2	Frogeye, race 1, 2	Cercospora sojina
PM	Powdery mildew	Microsphaera diffusa
PR	Phytophthora rot	Phytophthora megasperma f. sp. glycinea
PS	Purple stain	Cercospora kikuchii
PSB	Pod & stem blight	Diaporthe phaseolorum var. sojae
Pyd	Pythium root rot	Pythium debaryanum
Pyu	Pythium root rot	Pythium ultimum
RK	Root knot nematode	Meloidogyne spp.
RP	Rhizoctonia root rot	Rhizoctonia solani
SB	Sclerotial blight	Sclerotium rolfsii
SC	Stem canker	Diaporthe phaseolorum var. caulivora
SDS	Sudden Death Syndrome	Fusarium solani
SMV	Soybean mosaic	Soja virus 1
TS	Target spot	Corynespora cassiicola
WF	Wildfire	Pseudomonas syringae pv. tabaci
YMV	Yellow mosaic	Phaseolus virus 2

Ratings for BB, BP, DM, FE_2, and PM are based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

Tolerance rating categories for Phytophthora are as follows:

1 = No root rot, very vigorous.
2 = No root rot, better than average vigor.
3 = No root rot, average vigor.
4 = No root rot, slight stunting.
5 = Up to 10% dead plants, slight stunting.
6 = Up to 20% dead plants, moderate stunting.
7 = Up to 50% dead plants, moderate to severe stunting.
8 = More than 50% dead plants, severe stunting.
9 = All plants died before flowering.
10 = Plants did not emerge or died soon after emergence.

The percent purple stain and Phomopsis seed infection is based on a 100-seed sample placed on potato-dextrose agar in petri plates.

The percent green seed is based on a 100-seed sample and is the number of seed with a green or partially green seedcoat.

Abbreviations used in sudden death syndrome (SDS) ratings are as follows:

R6Date - Days from planting to R6.2 growth stage
R6DI - SDS Disease Incidence (% of plants with visible symptoms)
R6DS - SDS Disease Severity (1=mild chlorosis, 5=severe leaf scorch, 9=premature death of the plant)
R6DX - SDS Disease index (R6DI x R6DS/9)

PROCEDURE FOR TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests, Northern Region, has been agreed upon by public soybean breeders. The policy was developed to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and in foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the Agricultural Research Service, U.S. Department of Agriculture. The tests are divided into those in the Northern Region, for strains in maturity groups 00 to IV, and those in the Southern Region, for strains in maturity groups V to VIII. Group IV maturity strains are divided into a IV N test for the northern region and a IV S test for the southern region. Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests. Strains developed by four or more backcrosses to a released cultivar may be entered without prior yield evaluations.

Strains are evaluated for one year in the Preliminary Tests (PT) which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given an opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations than Preliminary Tests and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly into the UT without prior evaluation in the PT. Strains evaluated in Regional Cyst Nematode (SCN) Tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is generally initiated by the institution that developed the strain.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may become the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

Where a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains. By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a States Experiment Station's policy. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained from Dr. Howard J. Brooks, Assoc. Deputy Administrator for Plant Science, USDA, ARS, Bldg. 005, BARC-West, Beltsville, MD 20705 (Ph. 301-504-6252). The office for clearance of proposed names of new soybean cultivars is: Mr. James P. Triplett Chief, Seed Regulatore & Testing Branch Livestock and Seed Division, AMS/USDA, Bldg. 506, BARC-East, Belsville, MD 20705-2350 (phone 301-504-9430). The date for simultaneous publicity release on the new cultivar by participating states usually is August 1, but the date may be delayed until April 1 of the following year if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data are being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT including private plant breeders, for testing and for crossing if this distribution has not been made previously.

UNIFORM TEST STRAINS RELEASED IN 1994

Variety	Exp. Desig.	Uniform Test Evaluations
Ayr	ORC 9004	PT I 1991, UT I 1992-1993
RCAT Columbus	ORC 9008	PT IIB 1991, UT II 1992-1993
Conrad 94	A Conrad BC	UT II 1993
Faribault	M86-1322	SCN I 1988-1993, UT I 1990-1993
Hendricks	M88-1112	UT O 1989-1991
IA3003	AM90-211003	PT IIA 1991, UT II 1992-1993
Kenwood 94	A Kenwwod BC	UT II 1992-1993
	IA2014	UT II 1994
Ohio FG1	HS90-3508	None
Ohio FG2	HS90-3513	PT IIIA 1993
Probst	C1832	PT IIIB 1991, UT III 1992-1993
Stressland	HC89-2170	PT IVA 1992, UT IV 1993-1994
Yale	LN87-2112	SCN III 1990-1994, SCN III 1989-1994

Variety	Release Date	Releasing States	Found. Seed Production
Ayr	March 31, 1993	Canada	1993
RCAT Columbus	March 31, 1993	Canada	1993
Conrad 94	March 15, 1994	IL, MI, OH	1994
Faribault	February 15, 1994	MN	1993
Hendricks	February 15, 1994	MN, ND, SD	1993
IA3003	March 15, 1994	IA, IL	1994
Kenwood 94	March 15, 1994	IA, IN, MI, OH	1994
Ohio FG1	August 1, 1994	NE, OH	1994
Ohio FG2	August 1, 1994	MO, OH	1994
Probst	September 1, 1994	IL, IN, IA, KS, MO, NE, OH	1994
Stressland	August 1, 1994	IN, KS, MO, OH	1994
Yale	August 1, 1994	IL, IN, MO, NE, OH	1994

1994 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	UT	PT
IA	Ames	W. R. Fehr	Emergence Score	00-IV	
	Ames	W. R. Fehr	Iron Chlorosis	00-III	I-III
	Ames	R. Ruff	PR_4	I-III	I-III
	Boone	R. Ruff	BSR	I-III	I-III
IL	Villa Ridge	P. Gibson	SDS	III-IV	
IN	Lafayette	T. S. Abney	PS	I-IV	I-IV
	Vincennes	T. S. Abney	PS&B	III-IV	
	Lafayette	J. R. Wilcox	PR7	00-IV	00-IV
KS	Manhattan	W.T. Schapaugh, Jr	Shattering Score	00-IV	I-IV
	Ottawa	W.T. Schapaugh, Jr	Shattering Score	IV	
	Topeka	W.T. Schapaugh, Jr	Shattering Score	III-IV	
MN	Lamberton	J.H. Orf	Iron Chlorosis	00-IV	I
OH	Custar	A.Schmitthenner	Root Rot Race 25	I-IV	I-IV

UNIFORM TEST LOCATIONS - 1994

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
DE	Georgetown	B. Uniatowski					X	X				
IA	Ames	W.R. Fehr				X*				X*		
	Fairfield	W.R. Fehr					X				X	
	Grand Junction	W.R. Fehr				X						
	Greene	W.R. Fehr			X							
	Griswold	W.R. Fehr					X					
	Kanawha	W.R. Fehr			X*				X*			
	Keystone	W.R. Fehr				X				X		
	Pomeroy	W.R. Fehr			X				X			
	Stuart	W.R. Fehr					X*				X*	
IL	Belleville	M. Schmidt						X				X
	Dekalb	C.D. Nickell				X						
	Dewight	C.D. Nickell				X						
	Newton	C.D. Nickell					X	X				
	Ridgway	C.D. Nickell					X	X				
	Urbana	C.D. Nickell				X*	X*	X*		X*	X*	X*
	Villa Ridge	M. Schmidt						X				
IN	Bluffton	J.R. Wilcox				X*	X					
	Lafayette	J.R. Wilcox			X	X	X*	X		X*	X*	
	Vincennes	J.R. Wilcox					X	X*				X*
KS	Manhattan	W.T. Schapaugh					X	X			X	X
	Ottawa	W.T. Schapaugh						X				
	Powhattan	W.T. Schapaugh					X					
	Topeka	W.T. Schapaugh					X	X				
KY	Lexington	T. Pfeiffer					X	X				X
MD	Queenstown	W.J. Kenworthy & P.B. Creegan					X	X				X
MI	Ingham Co.	B. Diers			X	X			X	X		
	Lanawee Co.	B. Diers				X						
MN	Crookston	J.H. Orf	X									
	Lamberton	J.H. Orf			X	X			X			
	Moorhead	J.H. Orf	X									
	Morris	J.H. Orf		X								
	Rosemount	J.H. Orf		X								
	Shelly	J.H. Orf	X									
	Waseca	J.H. Orf			X	X			X			
MO	Columbia	D. Sleper					X	X			X	X
	Portageville	S.C. Anand						X*				

UNIFORM TEST LOCATIONS - 1994

Location		Tests Conducted By:	Uniform Tests 00	0	I	II	III	IV	Preliminary Tests I	II	III	IV
SD	Cedar Rapids	L. Korte				X						
	David City	& G. Graef				X	X			X	X	
	Falls City	L. Korte					X					
	Hartington	& G. Graef			X	X				X		
	Lincoln	L. Korte			X							
	Tekamah	& G. Graef					X				X	
NJ	Adelphia	R.D. Ilnicki				X	X	X		X		
ND	Casselton	T. Helms	X*	X*								
OH	Hoytville	R. Fioritto				X*	X*			X*	X*	
	Mt. Orab	S. St. Martin					X	X				X
	S. Charleston	R.L. Cooper					X	X			X	X
	Wooster	R. Fioritto				X	X					
ONT	Dutton	G.R. Ablett			X							
	Elora	P. Gostovic	X*									
	London	P. Gostovic			X*							
	Ottawa	H.D. Voldeng	X*	X								
	Ridgetown	G.R. Ablett				X				X		
	Smithfield	H.D. Voldeng										
	Woodstock	P. Gostovic		X*								
PA	Landisville	J.O. Yocum					X	X				
SD	Beresford	R. Scott								X		
	Brookings	R. Scott		X	X	X			X*			
	Elk Point	R. Scott					X					
	Watertown	R. Scott		X*	X*							
WI	Arlington	E.T. Gritton			X	X			X	X		
	Ashland	E.T. Gritton	X									
	Spooner	E.T. Gritton		X								
X Location with Agronomic Data			7	8	14	21	26	19	7	12	10	9
X* Location With Seed Compostion Data			3	3	3	4	4	3	2	4	4	2

IDENTIFICATION OF PARENT STRAINS 1994

Strain	Parentage
A1	Anoka x Mack
A2	M63-17 x C1453
A7	Selection from AP9
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A74-204034	M62-263 x Amsoy 71
A75-204018	IVR Ex4731 x Wirth
A75-305022	Wye x (Amsoy x Wayne)
A75-332035	L15 x AP68-1016
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A78-227015	Pride B216 x (Beeson x AP68-1012)
A79-135010	Pride B216 x Cumberland
A79-136012	Pride B216 x Land O'Lakes 4102
A79-236002	Pride B216 x Cumberland
A80-144024	Weber x L69U40-16-4
A80-147003	Northrup King S1492 x Pella
A80-244003	Northrup King S1492 x Pella
A80-244036	A74-204034 x Cumberland
A80-344003	A75-332035 x Century
A80-346029	A75-204018 x BSR 101
A81-356022	Century x A76-304020
A83-271027	Northrup King S1492 x Asgrow A3127
A85-192034	A80-344003 x Asgrow A1937
A85-193023	A79-135010 x Asgrow A1937
A85-291001	Elgin x Asgrow A1937
A85-293032	A80-344003 x Elgin
A86-103027	Hack x Asgrow A1937
A86-104011	A80-244036 x A80-344003
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
A87-186011	AP9
A87-186035	AP9
A87-187020	AP6
A87-296011	Harper x A80-346029
AG 51514	Unknown
AgriPro 35	L15 x Cutler
Agripro NAPB Ex2323	Unknown
Amuruskaja 41	PI
AP6	40 lines intermated (Crop Sci.15:739, 1975)
AP9	Iron-def. chlor. resis. (Crop Sci.20:677, 1980)
AP68-1012	Clark(5) x PI 84.946-2
AP68-1016	Clark(5) x PI 84.946-2
Asgrow A1214	Evans x AG51514
Asgrow A1564	Hark x C1453
Asgrow A1937	Hodgson 78 x Wayne
Asgrow A2234	[(Calland x Amsoy) x Century(3)] x Williams 82
Asgrow A2575	C1453 x Amsoy 71
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127

IDENTIFICATION OF PARENT STRAINS, 1994

Strain	Parentage
Asgrow A3427	X3836 x Asgrow A3127
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3935	MO474C x Asgrow A3127
Asgrow A4393	X4136 x Elf
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A5424	Williams x Essex
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1453	C1266R x C1253
C1627	Century x Hodgson
C1640	Century M2 fan (low 18:3)
C1678	Hobbit x Lakota
C1742	A80-344003 x Century 84
C1762	C1627 x CX782-257-3-1
CM304	Unknown
Coker 393	Unknown
CX782-257-3-1	Fiskeby V x Essex
CX1022-90	Harper x C1640
CX1038-63	Cutler 71(3) x Pando
D49-2510	S-100 x CNS
D51-4877	Roanoke x N45-745
D60-9647	FC31745 x D49-2510
Dairyland DSR 252	Unknown
Dairyland DSR 284	(Hark x Corsoy) x Corsoy 79
Dairyland DSR 304	Williams x Unknown
Dekalb Pfizer CX415	Unknown
Dekalb Pfizer CX458	Unknown
E84159	Sprite x L73-4673
E86367	Century x A80-144024
E86368	Century x A80-144024
Elf BC	Elf(6) x Williams 82
FC31745	Farmer selection from Virginia
GR8836	HM8473
GR8936	Asgrow A3127 x L24A
Hartz 936	Unknown
HC74-634RE	Williams x Ransom
HC74-3400	Williams x Ransom
HC78-350	L72U-2567 x Essex
HC78-676	L70T-543G x L74D-619
HC80-1756	L73U632 x Elf
HC80-1944	L73U-632 x Elf
HC80-1942	L73U-632 x Elf
HC80-1946	L72U-2567 x Elf
HC83-232-15	Pixie x PI 229.358
HC83-4532	L74D-634 x Hobbit
HC84-553-1	Hobbit x K74-104-76-205
HC84-1060	A72-512 x HC74-3400
HM8473	Asgrow A3127(4) x Williams 82
HM8477	Dawson x K79-1
HM8580	HW79116 x HW79149
HM8625	A79-236002(2) x HW79149

IDENTIFICATION OF PARENT STRAINS, 1994

Strain	Parentage
HM8635	Zane(3) x HW79149
HM8778	Zane(4) x HW79149
HM8848	Sherman x [Asgrow A3127(4) x Williams 82]
HM87107	Asgrow A3127 BC3F2 x Unknown
HS84-6224	HW79015(2) x HW79149
HS85-5755	Century 84 x HW8008
HS87-5114	Asgrow A2943 x A83-271027
HW7847	Evans x Williams
HW79015	A72-512 x Oakland
HW79116	Cumberland x Pella
HW79149	[A72-507(6) x A1] x [A72-507(5) x PI 82.263-2]
HW8008	L69U40-16-4 x Century
HW8372	Pride B216 x K-9
IVR Ex4731	Amsoy x Wayne
Jacques J-231	(Hodgson x Calland) x Corsoy
Ja53-7-6	Selection from Japanese variety
K-9	Tracy x Williams
K74-104-76-205	Tracy x Williams
K74-114-75-000	Tracy x Bonus
K79-1	Williams x D60-9647
K1126	HW7847 x Forrest
K1148	Essex x Cumberland
K1154	Schapaugh (Prelim IIIA)
KA555	Evans x M57-69
L1-5	Century(5) x PI 408.251
L15	Wayne(6) x Clark 63; Rps1 isoline
L24A	Williams(7) x Kingwa
L57-0034	Clark x Adams
L66L-140	Wayne x L57-0034
L66L-154	Wayne x L57-0034
L67-153	Harvey Voldeng (00)
L69U40-16-4	Calland x Amsoy
L70T-543G	L15 x Amsoy 71
L72U-2567	Williams x Ransom
L73-4673	Corsoy x L66L-154
L73U-632	Miller 67 x L66L-140
L74-3897	Williams x Beeson
L74D-634	Williams x Ransom
L74D-634RE	Williams x Ransom
Land O Lakes 4102	(Mack x [Wayne x (Clark a Adams)]) x Cutler
LN81-1029	K74-114-75-000 x Pella
LN82-4858	Williams 82 x L73-4673
LN84-452	A78-227015 x Asgrow A3127
LN84-3897	HW79149 x Harper
LN85-10234	LNX8179 x A80-244003
LN86-983	Hack x BSR101
LN86-1947	PI 437.833 x Elgin
LN86-4668	Fayette X Hardin
LNX8179	F1 (Northrup King S1492 x PI 92.718-2)
LNX8401	F1 (Hack x Asgrow A2943)
LNX8502	F1 (Sherman x Chamberlain)
LNX8509	F1 (Sherman x Asgrow A2943

IDENTIFICATION OF PARENT STRAINS, 1994

Strain	Parentage
LNX8511	F1 (Sherman x A83-271027)
LNX8513	F1 (LN81-1029 x Chamberlain)
LNX8519	F1 (LN81-1029 x A83-271027)
LS80-6521	Franklin x Pixie
M10	Lincoln(2) x Richland
M53-43	M10 x PI 180.501
M53-117	M10 x PI 180.501
M54-139	Renville x Capital
M54-240	[Lincoln(2) x Richland] x Korean
M57-69	M10 x PI 180.501
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-224	Merit x Harosoy
M62-93	Merit x M406
M62-173	M387 x M406
M62-263	Grant x M319W
M63-17	M402 x M406
M63-87	Chippewa x PI 261.475
M63-217Y	Corsoy x M53-117; Y hilum sib of Hodgson
M64-3	Traverse x PI 196.163
M65-442	Anoka x Amsoy
M67-141	Corsoy x Wayne
M68-2	Wilkin x M59-120
M68-49-26	Evans x M59-120
M68-176	Merit x Beeson
M68-256	Evans x Steele
M69-36	Merit x Corsoy
M69-247	M60-406 (2) x N.L. Wayne
M70-127	Evans x M63-217Y
M70-187	Merit x SS65-5702
M70-271	Merit x M64-3
M70-294	Ja53-7-6 x M63-217Y
M70-330	M62-93 x M64-3
M70-484	M63-87 x M53-43
M71-148	Clay x Evans
M72-3	Evans x Hodgson
M72-127	Evans x M63-217Y
M73-62	M61-224 x PI 297.518
M73-63	M61-224 x PI 232.200
M74-23	M68-2 x Evans
M74-69	M68-256 x Hodgson
M74-359	M70-187 x Altona
M74-498	Peterson PX20 x [Hodgson(4) Rps1 x Merit]
M75-2	Hodgson x [M67-141 x (Chippewa x Higan)]
M75-48	Wilkin x M65-442
M75-274	Evans x L70T-543
M75-314	M69-247 x KA555
M76-151	M70-271 x Hodgson 78
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-382	M70-127 x Century
M81-564	M69-36 x Weber

IDENTIFICATION OF PARENT STRAINS, 1994

Strain	Parentage
M82-303	M70-330 x M68-176
M82-601	M70-484 x Vickery
M82-791	M68-256 x L74-3897
M82-996	M72-3 x Peterson 1677
M82-1080	Evans x R79
M83-3	McCall x Maple Presto
M83-16	A2 x Hodgson
M83-91	Weber x M75-2
M83-329	M73-62 x Vickery
M83-377	M72-127 x M74-359
M83-442	M71-148 x Pioneer 0877
M83-459	M74-69 x M75-48
M83-727	M73-62 x Simpson
M84-492	A79-136012 x M75-2
M84-747	M75-274 x M76-151
M84-916	A79-136012 x Dawson
M84-1023	M71-148 x M76-151
M85-627	Fayette x McCall
M85-907	Simpson x A80-147003
M85-933	Fayette x McCall
M86-714	M74-23 x Gnome
M86-1214	M71-148 x M76-151
M319 w	Lincoln x Hawkeye
M387	Renville x Capital
M402	Renville x Capital
M406	Harosoy x Norchief
MO474C	Unknown
Md83-5198	Bedford x Miles
Northrup King S19-90	Pride B152 x Pella
Northrup King S23-03	Pride B216 x Hodgson
Northrup King S23-12	Northrup King S1346 x Asgrow A2575
Northrup King S27-10	(Mack x Corsoy) x Pride B216(2)
Northrup King S30-41	Pride B152 x Pella
Northrup King S42-30	Essex x AgriPro 35
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1474	Hark x Wayne
Northrup King S1492	Corsoy x Wayne
OAC 86-07	Maple Arrow x Williams
OT86-5	(Maple Presto x Williams) x Weber
OX611	(SRF 200 x Harosoy DT2) x Harcor
P6123-27	Unknown
Peterson 1677	Rampage x Corsoy(2)
Peterson PX20	Blend 50% Wells : 50% P6122
Pioneer P0877	[Clark x Chippewa 64] x Corsoy
Pioneer P1677	Rampage x Corsoy(2)
Pioneer P1999.19	Unknown
Pioneer P9061	Wells x Pioneer 1677
Pioneer P9272	Pioneer P9292 x Asgrow A3127
Pioneer P9292	(Corsoy x Magna) x Williams
Pioneer P9341	CM304 x Asgrow A3127
Pioneer P9391	Asgrow A3127 x Williams 79
Pioneer P9441	Williams x Essex

IDENTIFICATION OF PARENT STRAINS, 1994

Strain	Parentage
Pioneer P9442	Pioneer P9441 x Asgrow A3127
Pioneer P9461	(351-29 x Asgrow A4268) x (Pioneer P9401 x Asgrow A3127)
Pride B152	Northrup King S1346(6) x Mack
Pride B216	Corsoy x Wayne
PRX54-59	Harosoy x Altona
PRX58-35	PI 86.972-1 x Altona
PRX305-10	Winchester x PRX58-35
R79	Unknown
S82-1443	Asgrow A5424 x Mack
Salut 216	PI 295.952
S0990	PI 189.868 x Amsoy 71(2)
SG1Y/10PD	Intermated Population
Sigco KG20	McCall x 2S11
SS65-5702	Clark x [Scott(2) x Peking]
T8508	Northrup King S1346 x Calland
UP3C0	Intermated Population
Uphoff 3100	Unknown
UX106	Asgrow A2234 x PI 404.177
UX110	Agripro NAPB Ex 2323 x PI 423.949
UX112	M81-382 x PI 423.949
V68-1034	York x PI 71.506
W10186	Salut 216 x Ameruskaja 41
X3836	Unknown
059-903	Fiskeby III selection
2S11	059-903 x Hardome
9292	(Corsoy x Magna) x Williams

UNIFORM TEST 00, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
AC Harmony	(Maple Presto x Williams) x Weber	6	F5	
Agassiz (0)	Simpson x M71-148	6	F5	Rps1
Maple Ridge	Fiskeby III x Evans	14	F5	
McCall (00)	(Acme x Chippewa) x Hark	20	F5	
M87-731	McCall x Altona	3	F4	Rps6
M90-261	{[M75-314 x (Chico x Hartz 936)] x (Chico x PI 361.061)} x {[M75-314 x (Chico x Hartz 936)] x (Chico x PI 361.061)}	-	F4	Small seed
M90-717	M83-442 x McCall	-	F5	
ND90-3465	McCall x Ozzie	-	F5	
OT92-8	Baron x Maple Donovan	1	F5	Reenter
OT92-12	Amsoy 71 BC_6 x Maple Presto	-	F4	
OT93-16	[(Maple Presto x Evans) x OX611] x Maple Presto	-	F5	
OT93-22	(L67-153 x Maple Presto^5) x (Maple Presto x Karikachi)	-	F5	$E_1e_3e_4$, dt1
SL90-62	PI 458.824 x M81-18	-	F5	
SL90-370	M81-27 x M83-16	-	F5	
SL90-472	Evans2 x PI 417.511	-	F4	
SL90-547	Evans2 x PI 417.511	-	F4	
SL90-573	Evans2 x PI 417.511	-	F4	
SL90-599	Evans2 x PI 417.511	-	F4	
SL90-655	M83-3 x McCall	-	F5	
SL90-661	M83-3 x McCall	-	F5	
SL90-665	M83-3 x McCall	-	F5	
SL90-705	M83-442 x McCall	-	F5	
SL90-706	M83-442 x McCall	-	F5	
SL90-776	M83-442 x M81-18	-	F5	

* Number of years in test or name of 1993 test

UNIFORM TEST 00, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shatter Score Manhattan	PR Laf. Race 7
AC Harmony	WTBSYBrI	3.0	2.5	1	1	S
Agassiz (0)	PGBDYBfI	2.9	3.5	1	1	S
Maple Ridge	PGBSYYI	2.8	4.0	1	1	S
McCall (00)	PTBIYYI	3.1	4.0	1	1	S
M87-731	PTBDYYI	3.2	4.0	1	1	S
M90-261	P+WGBDYYI	3.2	3.5	5	2	S
M90-717	PGBDYYI	3.8	4.5	1	1	S
ND90-3465	PGBDYYI	3.0	4.0	1	1	S
OT92-8	PTBSYBrI	3.2	2.5	1	2	S
OT92-12	PTBDYYI	3.2	4.5	1	1	S
OT93-16	PTBDYBlI	3.4	4.5	1	1	S
OT93-22	PTBIYBrI	3.5	2.5	2	2	S
SL90-62	PGBIYYI	2.6	3.5	2	2	S
SL90-370	PGBDYYI	2.5	4.0	3	1	S
SL90-472	PGBDYGrI	2.8	3.0	1	1	S
SL90-547	P+WGBDYGr+YI	2.8	3.0	2	1	S
SL90-573	P+WGBDYGr+YI	2.6	4.0	1	2	S
SL90-599	P+WGBDYGr+YI	2.6	3.5	1	1	S
SL90-655	PGBDYYI	2.9	3.0	1	1	S
SL90-661	PGBDYYI	3.2	4.5	1	4	S
SL90-665	PGBIYYI	3.4	3.5	1	1	S
SL90-705	WGBDYYI	2.5	4.0	1	1	S
SL90-706	P+WGBDYYI	3.8	5.0	1	2	S
SL90-776	P+WGBIYYI	3.5	5.0	3	1	S

UNIFORM TEST 00, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In	Seed Quality 5 Score	Seed Size 5 g/100	Composition Protein 3 %	Oil 3 %
AC Harmony	43.3	11	-1.7	1.1	34	1.5	14.6	39.9	21.3
Agassiz (0)	43.7	9	5.7	1.1	37	1.6	14.0	42.9	19.6
Maple Ridge	35.3	24	-8.6	1.3	31	1.8	16.2	42.7	19.2
McCall (00)	40.5	18	09/14	1.7	35	1.8	15.7	41.6	20.1
M87-731	41.9	15	2.1	2.0	36	1.7	16.4	42.5	19.1
M90-261	35.8	23	7.6	2.1	36	1.4	10.0	41.2	19.7
M90-717	38.4	21	-0.4	1.4	34	1.6	16.9	43.5	19.8
ND90-3465	42.6	12	5.3	1.4	37	1.7	15.3	43.2	19.3
OT92-8	38.8	20	-1.7	1.8	34	1.9	17.6	41.8	19.9
OT92-12	38.1	22	-5.4	1.3	35	1.9	20.2	40.2	20.1
OT93-16	44.1	8	0.3	1.6	34	1.5	14.8	40.7	20.4
OT93-22	41.2	17	0.3	1.1	34	1.8	19.1	40.3	19.6
SL90-62	40.1	19	8.4	1.3	37	1.6	17.0	41.5	20.4
SL90-370	44.9	3	6.0	1.2	40	1.5	15.4	41.4	19.5
SL90-472	41.8	16	9.9	1.9	41	1.7	15.3	42.9	19.3
SL90-547	45.0	2	9.7	1.5	35	1.5	16.1	43.1	19.3
SL90-573	44.4	6	7.6	2.0	41	1.5	16.9	42.7	19.4
SL90-599	44.7	4	9.0	1.7	39	1.7	15.9	43.4	18.9
SL90-655	42.2	13	4.0	1.8	38	1.7	15.7	41.0	19.9
SL90-661	44.5	5	3.7	1.5	39	1.8	16.9	41.3	19.3
SL90-665	42.1	14	3.0	1.6	37	1.5	15.2	40.3	20.6
SL90-705	44.4	6	1.7	1.5	35	1.5	15.9	42.4	19.2
SL90-706	43.6	10	1.6	1.8	35	1.7	16.1	40.9	19.9
SL90-776	46.3	1	5.7	1.7	40	1.9	15.1	42.2	19.7

119.0 Days After Planting

UNIFORM TEST 00, 1994

1993-1994, 2-YEAR MEAN

Strain No. of Tests	Yield 13 bu/a	Rank 13 No.	Maturity 14 Date	Lodging 14 Score	Plant Height 14 In	Seed Quality 12 Score	Seed Size 12 g/100	Composition Protein 8 %	Oil 8 %
AC Harmony	41.4	1	0.0	1.1	31	1.5	14.3	39.6	21.3
Agassiz (0)	41.4	1	6.1	1.2	33	1.7	13.3	42.0	19.4
Maple Ridge	34.1	6	6.1	1.2	28	1.7	16.0	41.5	19.2
McCall (00)	38.0	5	9/13.5	1.6	31	1.7	14.7	41.1	19.5
M87-731	39.7	3	2.6	1.8	32	1.7	15.7	41.7	18.9
OT92-8	39.2	4	0.5	1.7	31	1.8	17.3	40.7	20.2

119.5 Days After Planting

1991-1994, 4-YEAR MEAN

Strain No. of Tests	25	25	25	26	26	24	24	17	17
Agassiz (0)	36.4	1	4.8	1.3	30	1.9	13.1	40.7	19.5
Maple Ridge	30.1	4	-5.6	1.2	25	1.7	15.8	40.5	19.0
McCall (00)	33.3	3	9/12.0	1.6	29	1.9	14.5	39.8	19.5
M87-731	35.5	2	2.2	1.8	29	1.9	15.5	40.3	19.1

117.3 Days After Planting

UNIFORM TEST 00, 1994

YIELD (bu/a)

Strain	Mean 6 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland* WI
AC Harmony	43.3	49.8	30.2	49.2	39.2	36.4	55.2	12.6
Agassiz (0)	43.7	53.4	39.3	46.2	48.1	28.1	46.8	18.0
Maple Ridge	35.3	39.7	26.5	43.3	33.1	29.1	40.2	14.4
McCall (00)	40.5	48.5	30.6	42.7	36.7	38.6	46.1	13.7
M87-731	41.9	47.9	38.4	46.4	32.6	38.8	47.5	19.3
M90-261	35.8	45.7	32.7	37.5	34.9	29.5	34.3	14.1
M90-717	38.4	41.8	23.6	46.0	43.3	31.8	44.1	16.8
ND90-3465	42.6	52.5	28.9	44.7	44.9	39.3	45.1	15.3
OT92-8	38.8	47.7	34.6	37.6	30.1	35.5	47.5	12.7
OT92-12	38.1	44.4	30.3	37.8	32.7	36.2	47.3	13.9
OT93-16	44.1	54.0	35.1	50.7	33.2	41.0	50.5	17.6
OT93-22	41.2	46.8	32.8	38.3	35.1	40.3	53.6	12.9
SL90-62	40.1	54.2	30.5	44.4	47.5	27.3	36.8	16.6
SL90-370	44.9	53.0	38.3	44.3	51.0	37.1	45.9	11.8
SL90-472	41.8	56.9	36.3	41.2	41.3	39.3	35.5	17.0
SL90-547	45.0	56.6	34.2	49.0	49.3	39.1	41.6	18.3
SL90-573	44.4	54.6	37.3	40.7	46.6	43.8	43.4	20.7
SL90-599	44.7	56.6	38.4	47.5	45.0	42.2	38.7	15.4
SL90-655	42.2	52.2	28.6	47.5	35.5	40.9	48.5	20.2
SL90-661	44.5	57.4	33.6	46.2	41.0	39.6	49.4	20.3
SL90-665	42.1	48.3	36.3	47.1	35.9	37.0	48.2	16.6
SL90-705	44.4	53.9	33.4	47.9	45.9	38.3	47.0	18.6
SL90-706	43.6	54.2	36.3	48.2	42.4	35.3	45.3	12.3
SL90-776	46.3	54.1	42.2	48.3	46.9	41.9	44.3	17.8
C.V. (%)		9.1	17.6	8.8	7.2	7.8	9.4	20.6
L.S.D. (5%)		7.1	9.8	6.5	4.7	4.0	6.0	5.5
Row Sp. (in.)		12	10	10	30	15	16	24
Rows/Plot		8	8	8	4	4	4	4
Reps		3	3	3	3	4	3	3

* Data not included in the mean.

UNIFORM TEST 00, 1994

YIELD RANK

Strain	Yield Rank	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland WI
AC Harmony	11	15	20	2	14	16	1	22
Agassiz (0)	9	11	2	11	3	23	12	7
Maple Ridge	24	24	23	17	21	22	21	16
McCall (00)	18	16	17	18	15	12	13	19
M87-731	15	18	3	10	23	11	9	4
M90-261	23	21	16	24	19	21	25	17
M90-717	21	23	24	13	10	20	18	11
ND90-3465	12	13	21	14	9	8	16	15
OT92-8	20	19	11	23	24	18	8	21
OT92-12	22	22	19	22	22	17	10	18
OT93-16	8	9	10	1	20	4	4	9
OT93-22	17	20	15	21	18	6	2	20
SL90-62	19	6	18	15	4	24	23	12
SL90-370	3	12	5	16	1	14	14	24
SL90-472	16	2	7	19	12	8	24	10
SL90-547	2	3	12	3	2	10	20	6
SL90-573	6	5	6	20	6	1	19	1
SL90-599	4	4	3	7	8	2	22	14
SL90-655	13	14	22	7	17	5	6	3
SL90-661	5	1	13	11	13	7	5	2
SL90-665	14	17	7	9	16	15	7	12
SL90-705	6	10	14	6	7	13	11	5
SL90-706	10	7	7	5	11	19	15	23
SL90-776	1	8	1	4	5	3	17	8

UNIFORM TEST 00, 1994

MATURITY (date)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland WI
AC Harmony	-1.7	1	0	-1	-1	5	-1	-15
Agassiz (0)	5.7	7	8	6	11	14	6	-12
Maple Ridge	-8.6	-7	-10	-7	-9	-1	-11	-15
McCall (00)	09/14	09/08	09/05	09/12	09/07	09/18	09/17	10/04
M87-731	2.1	6	7	3	7	4	3	-15
M90-261	7.6	7	12	7	10	13	5	-1
M90-717	-0.4	3	1	1	2	4	1	-15
ND90-3465	5.3	7	9	6	9	8	5	-7
OT92-8	-1.7	-2	0	0	0	6	-1	-15
OT92-12	-5.4	-3	-8	-5	-3	4	-8	-15
OT93-16	0.3	7	5	2	1	2	0	-15
OT93-22	0.3	2	1	2	5	7	0	-15
SL90-62	8.4	10	14	10	11	12	6	-4
SL90-370	6.0	8	9	6	8	12	5	-6
SL90-472	9.9	9	14	10	16	16	5	-1
SL90-547	9.7	8	14	8	14	16	5	3
SL90-573	7.6	7	9	6	11	12	5	3
SL90-599	9.0	8	13	9	16	12	5	0
SL90-655	4.0	7	4	6	12	9	5	-15
SL90-661	3.7	6	4	5	12	8	3	-12
SL90-665	3.0	7	4	5	6	9	4	-14
SL90-705	1.7	2	5	3	2	8	2	-10
SL90-706	1.6	6	3	3	4	7	0	-12
SL90-776	5.7	8	8	6	7	10	7	-6
Date Pl.	05/18	05/11	05/19	05/19	05/12	05/29	05/21	05/18
Days to Mat.	119.0	120	109	116	118	112	119	139

UNIFORM TEST 00, 1994

LODGING (score)

Strain	Mean 7 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	Elora Ont.	Ottawa Ont.	Ash-land WI
AC Harmony	1.1	1.0	1.0	1.0	1.3	1.0	1.3	1.0
Agassiz (0)	1.1	1.0	1.0	1.0	1.3	1.0	1.7	1.0
Maple Ridge	1.3	1.0	1.0	1.0	1.7	1.0	2.4	1.0
McCall (00)	1.7	1.0	1.0	1.3	3.0	1.0	3.1	1.4
M87-731	2.0	1.7	1.0	1.7	3.0	1.0	4.0	1.3
M90-261	2.1	1.3	1.0	2.3	3.0	1.3	4.3	1.7
M90-717	1.4	1.0	1.0	1.0	1.7	1.0	2.2	1.7
ND90-3465	1.4	1.0	1.0	1.0	2.3	1.0	2.7	1.0
OT92-8	1.8	1.0	1.0	1.3	3.7	1.1	2.8	1.7
OT92-12	1.3	1.0	1.0	1.0	1.7	1.1	2.3	1.3
OT93-16	1.6	1.0	1.0	1.0	3.3	1.0	2.6	1.0
OT93-22	1.1	1.0	1.0	1.0	1.3	1.0	1.1	1.3
SL90-62	1.3	1.0	1.0	1.0	1.3	1.0	2.2	1.7
SL90-370	1.2	1.0	1.0	1.0	1.3	1.0	1.8	1.6
SL90-472	1.9	1.0	1.0	2.0	2.3	1.1	4.1	1.9
SL90-547	1.5	1.0	1.0	1.3	1.0	1.0	3.0	2.0
SL90-573	2.0	1.0	1.0	2.3	2.3	1.6	3.6	2.0
SL90-599	1.7	1.0	1.0	1.7	2.3	1.1	3.4	1.7
SL90-655	1.8	1.0	1.0	1.7	3.3	1.0	2.5	2.0
SL90-661	1.5	1.0	1.0	1.3	2.3	1.1	2.7	1.3
SL90-665	1.6	1.0	1.0	1.3	2.7	1.1	2.5	1.7
SL90-705	1.5	1.0	1.0	1.0	2.0	1.0	2.8	1.7
SL90-706	1.8	1.3	1.0	1.3	2.7	1.3	3.8	1.0
SL90-776	1.7	1.0	1.0	2.0	2.0	1.0	3.6	1.1

UNIFORM TEST 00, 1994

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland WI
AC Harmony	34	29	24	38	31	30	36	49
Agassiz (0)	37	32	22	42	35	30	33	67
Maple Ridge	31	27	22	32	25	26	32	53
McCall (00)	35	31	24	41	35	31	35	51
M87-731	36	37	24	35	30	30	36	57
M90-261	36	35	26	42	35	30	35	52
M90-717	34	34	17	37	30	28	32	60
ND90-3465	37	35	18	44	33	32	36	58
OT92-8	34	33	20	36	33	30	33	55
OT92-12	35	34	23	38	28	31	33	58
OT93-16	34	31	22	35	29	28	32	64
OT93-22	34	36	22	32	30	27	30	60
SL90-62	37	39	23	40	32	28	32	64
SL90-370	40	39	27	46	33	28	37	68
SL90-472	41	43	26	46	36	34	31	73
SL90-547	35	34	20	40	31	29	31	62
SL90-573	41	42	25	44	34	33	38	72
SL90-599	39	37	25	43	34	29	33	69
SL90-655	38	38	20	41	31	33	34	66
SL90-661	39	40	21	40	35	32	34	71
SL90-665	37	34	24	40	35	33	37	58
SL90-705	35	35	20	40	33	28	29	58
SL90-706	35	35	23	39	33	30	36	47
SL90-776	40	34	25	45	36	32	39	69

UNIFORM TEST 00, 1994

SEED QUALITY (score)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland WI
AC Harmony	1.5			1.3	1.0	1.5	2.2	1.5
Agassiz (0)	1.6			1.3	2.0	2.0	1.7	1.2
Maple Ridge	1.8			1.3	3.0	1.5	2.3	1.0
McCall (00)	1.8			1.7	2.0	1.5	2.0	2.0
M87-731	1.7			1.7	2.0	1.5	2.0	1.2
M90-261	1.4			1.3	1.0	1.5	2.0	1.2
M90-717	1.6			1.3	1.0	1.5	2.2	1.8
ND90-3465	1.7			1.3	2.0	1.5	2.0	1.8
OT92-8	1.9			1.3	3.0	1.5	2.0	1.5
OT92-12	1.9			1.3	3.0	1.5	2.0	1.7
OT93-16	1.5			1.7	1.0	1.5	2.0	1.5
OT93-22	1.8			2.0	2.0	1.5	2.0	1.7
SL90-62	1.6			1.3	1.0	1.5	2.0	2.0
SL90-370	1.5			1.7	1.0	1.5	2.0	1.5
SL90-472	1.7			1.0	2.0	1.5	2.5	1.5
SL90-547	1.5			1.3	1.0	1.5	2.0	1.5
SL90-573	1.5			1.3	1.0	1.5	2.0	1.8
SL90-599	1.7			1.3	1.0	1.5	2.8	1.8
SL90-655	1.7			1.7	1.0	2.0	2.2	1.5
SL90-661	1.8			1.7	2.0	2.0	2.0	1.3
SL90-665	1.5			1.3	1.0	2.0	2.0	1.3
SL90-705	1.5			1.7	1.0	1.5	2.0	1.5
SL90-706	1.7			1.3	2.0	1.5	2.0	1.7
SL90-776	1.9			1.7	2.0	2.0	2.0	1.7

UNIFORM TEST 00, 1994

SEED SIZE (g/100)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Ashland WI
AC Harmony	14.6			13.5	16.0	14.3	14.9	14.2
Agassiz (0)	14.0			12.0	16.1	14.9	13.9	13.2
Maple Ridge	16.2			14.1	18.0	16.5	14.7	17.6
McCall (00)	15.7			14.4	15.7	15.3	15.3	17.7
M87-731	16.4			15.4	18.1	14.4	16.5	17.8
M90-261	10.0			8.6	9.9	9.9	10.3	11.2
M90-717	16.9			15.6	17.9	16.5	17.8	16.5
ND90-3465	15.3			13.8	17.0	14.9	15.3	15.7
OT92-8	17.6			16.4	19.4	17.1	17.7	17.4
OT92-12	20.2			19.0	20.8	21.0	19.1	21.0
OT93-16	14.8			13.8	15.7	14.8	15.5	14.1
OT93-22	19.1			17.5	19.9	20.0	19.9	18.2
SL90-62	17.0			16.1	18.0	17.1	15.6	18.0
SL90-370	15.4			13.7	17.0	15.9	15.4	15.2
SL90-472	15.3			14.9	17.4	14.4	14.5	15.2
SL90-547	16.1			14.5	17.9	16.0	16.0	16.1
SL90-573	16.9			15.8	19.5	15.9	16.3	17.0
SL90-599	15.9			15.5	17.7	15.6	15.2	15.7
SL90-655	15.7			15.0	16.4	15.6	15.9	15.6
SL90-661	16.9			15.8	17.9	16.1	17.0	17.6
SL90-665	15.2			14.4	15.2	14.9	15.2	16.1
SL90-705	15.9			15.6	16.5	15.3	16.8	15.5
SL90-706	16.1			15.7	16.9	15.0	16.1	16.8
SL90-776	15.1			14.7	16.2	14.9	15.5	14.4

UNIFORM TEST 00, 1994

PROTEIN (%)

Strain	Mean 3 Tests	Fargo ND	Ottawa Ont.	Elora Ont.
AC Harmony	39.9	39.3	40.7	39.7
Agassiz (0)	42.9	42.0	43.2	43.5
Maple Ridge	42.7	41.8	45.1	41.2
McCall (00)	41.6	40.7	42.5	41.7
M87-731	42.5	40.2	45.2	42.1
M90-261	41.2	40.8	43.2	39.7
M90-717	43.5	42.0	45.5	43.1
ND90-3465	43.2	42.4	44.7	42.4
OT92-8	41.8	40.7	44.7	40.1
OT92-12	40.2	39.7	41.2	39.7
OT93-16	40.7	40.0	41.8	40.4
OT93-22	40.3	39.6	42.1	39.3
SL90-62	41.5	39.6	44.3	40.7
SL90-370	41.4	40.7	43.2	40.4
SL90-472	42.9	41.4	44.7	42.5
SL90-547	43.1	41.6	45.3	42.5
SL90-573	42.7	41.0	45.3	41.7
SL90-599	43.4	41.7	45.9	42.5
SL90-655	41.0	41.4	40.9	40.7
SL90-661	41.3	40.8	42.0	41.2
SL90-665	40.3	39.9	40.5	40.5
SL90-705	42.4	41.9	43.6	41.6
SL90-706	40.9	39.8	43.0	39.9
SL90-776	42.2	41.2	43.8	41.5

UNIFORM TEST 00, 1994

OIL (%)

Strain	Mean 3 Tests	Fargo ND	Ottawa Ont.	Elora Ont.
AC Harmony	21.3	21.3	23.0	19.5
Agassiz (0)	19.6	20.1	20.3	18.4
Maple Ridge	19.2	20.4	18.9	18.2
McCall (00)	20.1	19.7	20.3	20.3
M87-731	19.1	20.4	19.1	17.9
M90-261	19.7	20.2	20.5	18.4
M90-717	19.8	20.4	19.6	19.3
ND90-3465	19.3	19.8	19.5	18.7
OT92-8	19.9	20.5	20.2	19.1
OT92-12	20.1	20.1	21.2	18.9
OT93-16	20.4	20.5	21.3	19.5
OT93-22	19.6	19.8	19.9	19.0
SL90-62	20.4	20.9	20.5	19.8
SL90-370	19.5	20.3	19.4	18.7
SL90-472	19.3	19.9	18.7	19.2
SL90-547	19.3	20.1	18.5	19.3
SL90-573	19.4	20.7	18.8	18.7
SL90-599	18.9	19.6	18.4	18.7
SL90-655	19.9	20.5	20.4	18.9
SL90-661	19.3	19.6	20.3	18.1
SL90-665	20.6	20.3	21.4	20.2
SL90-705	19.2	19.3	19.7	18.5
SL90-706	19.9	20.1	19.9	19.8
SL90-776	19.7	20.5	19.9	18.6

UNIFORM TEST 0, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Agassiz (0)	Simpson x M71-148	2	F5	Rps1
Lambert (0)	M75-274 x M76-151	6	F5	Rps1
Parker (I)	A79-136012 x Dawson	3	F5	Rps1
M89-1006	M81-27 x Corsoy 79	1	F5	Rps1-c
M89-1023	M81-27 x Corsoy 79	1	F5	Rps1-c
M89-1815	M81-27 x Dawson	1	F5	Rps1
M90-916	M83-329 x Dassel	-	F5	
ND88-597	Ozzie x Dawson	2	F4	
ND88-599	Ozzie x Dawson	2	F4	
ND88-709	Bicentennial x Swift	2	F4	
ND88-800	Evans x Maple Amber	2	F4	
ND90-750	M83-442 x M81-18	-	F5	
ND90-1624	Pioneer 0877 x PI 204.652	-	F5	
ND90-1858	Simpson x PI 248.410	-	F5	
ND90-2152	Sigco KG20 x Sibley	-	F5	
ND90-2233	Sigco KG20 x Asgrow A1214	-	F5	
ND90-2624	M82-996 x Sigco KG20	-	F5	
OT92-1	{[(M62-173 x *G. sojae* T106) x Altona] x OX611} x Maple Amber	1	F5	
SL89-111	Maple Donovan x M82-303	1	F4	
SL89-556	M82-791 x M82-601	1	F4	
SL89-595	M81-564 x M83-16	1	F4	
SL89-850	M81-564 x McCall	1	F4	
SL90-456	M81-27 x M83-91	-	F5	
SL90-461	M81-27 x M83-91	-	F5	
SL90-577	Evans^2 x PI 417.511	1	F4	
SL90-722	M83-442 x M81-18	-	F5	
SL90-728	M83-442 x M81-18	-	F5	
SL90-754	M83-442 x M81-18	-	F5	
SL90-761	M83-442 x M81-18	-	F5	
SL90-778	M83-442 x M81-18	-	F5	
SL90-783	M83-442 x M81-18	-	F5	
SL90-794	M83-442 x M81-18	-	F5	
SL90-1092	Glenwood x S0990	-	F5	
SL90-1405	Hack x M83-3	-	F5	
SL91-1763M	M84-1023 x Sturdy	-	F5	
SL92-1233M	A86-204022 x Kato	-	F5	
SL92-1272M	Sibley x Kato	-	F5	
SL92-1323M	Kasota x Kato	-	F5	
SL92-1357M	Hack x Lambert	-	F5	
SL92-1401M	Simpson x M85-907	-	F5	
SL92-1461M	M84-747 x Glenwood	-	F5	

* Number of years in test or name of 1993 test.

UNIFORM TEST 0, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shatt. Score Man-hattan	PR Laf. Race 7
Agassiz (0)	PGBDYBfI	3.0	3.5	2	2	S
Lambert (0)	PGBSYBfI	3.2	3.0	1	1	S
Parker (I)	WGBDYIbI	3.8	3.0	5	1	S
M89-1006	WGBDYYI	2.9	4.0	3	2	R
M89-1023	WGBDYYI	2.8	4.5	5	2	R
M89-1815	PGBDYYI	2.9	4.5	5	1	S
M90-916	PGBIYYI	2.9	3.0	2	1	S
ND88-597	PGBDYYI	2.6	3.5	5	1	S
ND88-599	PGBDYYI	2.9	2.5	5	1	S
ND88-709	WTBIYBrI	3.1	3.5	5	2	H
ND88-800	P+WGBIYHetI	3.2	3.0	3	1	S
ND90-750	PGBDYYI	2.8	5.0	1	1	S
ND90-1624	PGBSYHetI	4.4	5.0	1	1	S
ND90-1858	*	3.8	5.0	4	1	S
ND90-2152	*	2.9	3.0	1	3	S
ND90-2233	PGBDYYI	2.6	4.0	1	2	S
ND90-2624	PTBIYYI	2.6	1.0	2	1	S
OT92-1	PGBDYBfI	4.0	4.0	1	1	S
SL89-111	P+WGTDYYI	2.9	3.0	5	2	S
SL89-556	PGTDYYI	2.8	2.5	2	1	S
SL89-595	PGBDYBfI	3.0	3.0	5	1	R
SL89-850	PGBDYYI	3.0	3.5	1	1	S
SL90-456	WGBDYYI	3.0	3.5	5	2	R
SL90-461	P+WGBDYBfI	2.9	2.0	5	3	S
SL90-577	WGBDYYI	2.9	3.5	1	4	S
SL90-722	PGBDYYI	3.6	4.0	5	3	S
SL90-728	PGBSYYI	3.1	3.0	5	4	S
SL90-754	PGBIYYI	3.1	5.0	5	3	R
SL90-761	WGBDYYI	3.1	5.0	5	3	S
SL90-778	PGBSYYI	3.0	3.5	1	3	S
SL90-783	WGBDYYI	2.9	3.0	1	3	S
SL90-794	WGBSYYI	3.0	4.5	3	2	S
SL90-1092	PGTDYBfI	3.8	4.5	5	1	S
SL90-1405	P+WGTDYIbI	4.1	4.5	2	3	S
SL91-1763M	PGBDYYI	4.8	5.0	2	1	R
SL92-1233M	PGBDYIbI	3.2	2.5	2	1	S
SL92-1272M	WGBDYBfI	3.1	4.5	1	1	S
SL92-1323M	WTBDYBlI	3.1	4.5	5	2	R
SL92-1357M	PGBSYIbI	3.9	4.0	4	1	S
SL92-1401M	PGBDYBfI	3.8	4.5	4	1	S
SL92-1461M	PTBDYBrI	3.2	4.0	1	1	S

* No Descriptive Code due to planting error.

UNIFORM TEST 0, 1994

REGIONAL SUMMARY

No. of Tests / Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 3 %	Composition Oil 3 %
Agassiz (0)	41.1	39	-6.5	1.3	30	1.7	15.0	43.3	19.6
Lambert (0)	51.5	6	09/18	1.6	33	1.6	16.8	43.6	19.6
Parker (I)	53.8	3	8.8	2.6	40	1.9	18.1	42.1	19.2
M89-1006	47.6	17	0.6	1.3	39	1.8	16.3	43.2	19.7
M89-1023	48.8	13	2.1	1.9	40	1.5	15.6	42.1	20.1
M89-1815	46.8	21	-3.6	2.0	37	1.6	17.0	41.1	20.0
M90-916	50.3	10	0.5	1.9	41	1.7	18.6	42.2	19.9
ND88-597	48.5	15	-1.3	1.4	34	1.6	16.7	41.4	19.6
ND88-599	46.8	21	-1.9	1.6	34	1.6	16.8	42.3	19.6
ND88-709	39.5	41	-2.8	2.4	31	2.1	17.9	39.8	19.2
ND88-800	45.8	27	-0.6	1.9	36	2.2	18.7	42.7	19.8
ND90-750	47.3	18	-2.8	2.0	37	1.4	17.4	42.4	19.5
ND90-1624	44.5	32	-4.6	2.1	31	2.0	16.8	42.7	19.5
ND90-1858	41.1	39	-2.3	1.8	31	2.7	17.0	42.3	19.0
ND90-2152	44.7	31	-4.8	2.6	30	1.5	19.4	42.1	19.1
ND90-2233	44.0	35	-4.3	2.3	36	2.4	20.7	41.3	19.3
ND90-2624	44.8	30	-7.6	1.4	30	1.8	17.3	42.5	19.3
OT92-1	50.0	11	1.8	2.2	35	1.7	15.4	40.8	19.9
SL89-111	47.2	19	-4.8	1.8	33	2.0	16.5	41.0	20.1
SL89-556	44.4	34	-4.3	1.4	32	1.7	16.0	42.6	19.7
SL89-595	43.8	36	-2.8	1.4	32	1.9	15.9	40.9	19.6
SL89-850	45.8	27	0.3	1.7	34	1.6	15.4	42.5	19.3
SL90-456	46.5	23	-2.4	1.4	30	1.3	15.9	41.8	20.1
SL90-461	42.4	37	-6.6	1.4	29	1.5	16.5	41.7	19.9
SL90-577	42.3	38	-5.1	1.5	30	1.7	18.1	42.8	19.1
SL90-722	51.3	7	-2.6	1.7	37	1.8	16.3	41.5	20.1
SL90-728	45.5	29	-2.5	1.8	38	1.9	17.1	42.6	19.9
SL90-754	46.3	25	-5.6	1.5	32	1.4	17.3	42.7	19.5
SL90-761	47.0	20	-1.1	1.7	38	2.0	16.8	41.8	19.9
SL90-778	46.4	24	-3.4	2.2	38	1.9	16.8	42.6	19.6
SL90-783	48.5	15	-1.1	1.7	37	1.7	17.1	42.6	19.4
SL90-794	44.5	32	-5.0	1.3	31	1.5	19.1	42.8	19.0
SL90-1092	48.7	14	-0.8	1.4	34	1.7	16.3	41.0	20.1
SL90-1405	45.9	26	-4.1	1.9	34	1.9	17.4	41.1	19.7
SL91-1763M	53.5	4	8.6	2.0	36	1.9	18.7	42.3	19.6
SL92-1233M	55.1	1	2.9	1.7	35	1.4	20.1	44.0	19.0
SL92-1272M	51.0	8	2.9	1.5	37	1.6	17.8	42.4	20.1
SL92-1323M	53.0	5	4.4	1.2	34	1.5	20.3	43.9	19.1
SL92-1357M	54.9	2	5.1	1.5	32	1.5	17.7	41.9	19.3
SL92-1401M	50.5	9	7.0	2.4	36	1.5	14.6	41.8	19.5
SL92-1461M	49.0	12	5.5	1.9	36	1.6	19.9	43.5	19.2

124.0 Days After Planting

UNIFORM TEST O, 1994

1993-1994 2-YEAR MEAN

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 13 Date	Lodging 12 Score	Plant Height 13 In.	Seed Quality 13 Score	Seed Size 13 g/100	Composition Protein 8 %	Oil 8 %
Agassiz (E)	38.1	14	-8.3	1.3	27	1.6	14.4	42.4	19.6
Lambert (O)	47.6	2	09/18.0	1.5	30	1.7	16.3	42.9	19.4
Parker (I)	49.3	1	8.4	2.1	36	2.1	17.5	41.1	19.2
M89-1006	44.4	5	1.3	1.3	34	1.6	15.3	43.2	18.9
M89-1023	45.5	4	3.2	1.7	35	1.8	15.3	41.2	19.8
M89-1815	42.7	11	-4.7	1.7	33	1.6	16.5	41.2	19.8
ND88-597	44.2	7	-3.3	1.4	30	1.7	15.9	41.2	19.4
ND88-599	44.4	5	-2.3	1.5	31	1.6	16.5	42.1	19.3
ND88-709	37.6	16	-5.8	2.1	27	2.1	17.4	39.6	19.8
ND88-800	42.8	10	-0.6	1.6	32	2.0	18.0	42.4	19.8
OT92-1	46.3	3	2.5	1.8	32	1.9	14.8	40.3	19.9
SL89-111	44.2	7	-5.1	1.7	30	1.9	15.8	40.6	20.1
SL89-556	40.1	13	-5.9	1.4	29	1.6	15.4	41.6	19.8
SL89-595	41.0	12	-3.9	1.4	30	1.8	15.5	40.2	20.0
SL89-850	42.9	9	-2.3	1.5	31	1.5	14.7	42.1	19.2
SL90-577	37.8	15	-5.0	1.4	27	1.6	17.6	42.4	19.3

125.3 Days After Planting

1992-1994 3-YEAR MEAN

No. of Tests Strain	17	17	18	19	20	20	20	12	12
Agassiz (E)	36.8	6	-7.9	1.2	28	1.8	14.2	41.8	19.1
Lambert (O)	45.2	2	09/22.0	1.5	33	1.7	16.2	42.1	19.1
Parker (I)	45.8	1	7.7	2.3	37	2.2	17.1	40.6	18.9
ND88-597	42.2	3	-2.4	1.4	31	1.8	16.3	40.9	18.9
ND88-599	41.4	4	-1.6	1.4	31	1.7	16.7	41.7	19.0
ND88-709	35.3	7	-6.3	2.1	30	2.0	17.6	39.7	19.3
ND88-800	40.7	5	-0.7	1.7	31	2.0	18.0	41.6	19.3

124.3 Days After Planting

UNIFORM TEST 0, 1994

YIELD (bu/a)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	41.1	37.0	44.3	46.2	55.8	32.6	28.7	41.8	42.7
Lambert (0)	51.5	49.8	53.2	56.0	68.8	43.6	37.9	53.9	49.0
Parker (I)	53.8	58.1	49.7	52.9	65.3	49.6	44.0	59.0	51.8
M89-1006	47.6	46.9	46.2	47.2	66.2	43.2	40.1	46.3	44.5
M89-1023	48.8	46.1	46.9	45.0	65.7	45.8	38.0	55.4	47.5
M89-1815	46.8	48.4	46.2	45.5	63.4	41.3	40.7	45.4	43.2
M90-916	50.3	51.7	44.3	52.5	64.1	46.6	39.1	54.2	50.1
ND88-597	48.5	47.1	51.2	51.7	63.8	41.8	40.9	46.7	44.7
ND88-599	46.8	35.8	49.3	51.6	61.4	43.4	38.1	47.8	46.8
ND88-709	39.5	39.3	52.2	40.7	50.7	30.5	29.7	37.1	35.8
ND88-800	45.8	46.7	50.3	45.0	62.2	38.6	32.4	44.1	47.0
ND90-750	47.3	42.5	48.4	47.6	66.7	45.5	37.7	51.1	38.6
ND90-1624	44.5	48.0	46.8	41.9	65.1	36.4	35.3	45.5	37.4
ND90-1858	41.1	37.8	42.3	46.2	53.1	31.8	32.0	42.5	42.8
ND90-2152	44.7	41.8	47.0	45.2	64.3	43.4	32.6	39.8	43.7
ND90-2233	44.0	44.5	41.9	42.9	58.0	41.4	33.5	43.6	46.1
ND90-2624	44.8	42.9	45.8	46.0	64.1	37.7	31.6	44.9	45.5
OT92-1	50.0	50.4	50.5	48.6	67.2	44.3	39.7	48.8	50.3
SL89-111	47.2	46.5	49.1	45.6	64.4	39.5	37.4	50.5	44.7
SL89-556	44.4	44.4	44.5	44.7	60.2	32.4	35.5	45.4	48.1
SL89-595	43.8	44.4	46.9	44.0	58.6	36.7	30.9	46.0	43.2
SL89-850	45.8	52.1	45.2	43.9	64.1	40.6	34.5	43.8	42.6
SL90-456	46.5	46.7	49.8	48.1	62.8	41.4	38.8	45.0	39.3
SL90-461	42.4	38.8	45.9	46.1	60.2	28.9	34.2	44.5	40.8
SL90-577	42.3	46.8	46.3	44.1	57.1	37.2	30.2	39.9	36.4
SL90-722	51.3	51.7	48.8	53.4	75.3	43.3	37.3	49.5	50.8
SL90-728	45.5	46.2	48.6	51.2	60.0	36.9	34.0	44.1	42.7
SL90-754	46.3	44.2	47.3	49.6	61.4	38.4	34.7	47.7	47.2
SL90-761	47.0	46.7	48.5	47.7	63.3	37.6	32.4	49.6	50.2
SL90-778	46.4	57.2	43.5	39.7	65.7	38.6	36.3	47.9	42.2
SL90-783	48.5	49.9	45.8	45.3	71.0	40.9	42.1	46.6	46.6
SL90-794	44.5	44.9	42.7	47.8	64.4	35.7	30.9	47.9	41.6
SL90-1092	48.7	52.1	48.8	54.1	60.7	41.7	39.9	44.9	47.5
SL90-1405	45.9	45.1	55.0	46.2	59.1	36.9	34.1	43.5	47.1
SL91-1763M	53.5	59.3	59.8	61.0	52.0	44.6	49.7	50.5	51.0
SL92-1233M	55.1	53.7	60.1	62.8	62.5	42.2	48.3	55.6	55.3
SL92-1272M	51.0	53.6	49.4	54.1	59.7	46.5	43.5	51.4	49.6
SL92-1323M	53.0	56.0	52.8	60.0	62.0	43.9	43.3	54.0	52.1
SL92-1357M	54.9	56.7	56.9	59.2	63.1	48.1	42.9	59.3	53.2
SL92-1401M	50.5	54.4	54.1	51.1	54.8	41.8	41.9	54.1	51.6
SL92-1461M	49.0	51.7	47.0	56.5	56.2	45.0	43.3	53.8	38.9
C.V. (%)		11.2	11.8	6.8	6.3	6.5	10.1	6.0	8.0
L.S.D. (5%)		8.7	9.3	5.3	5.6	4.8	5.1	3.9	5.9
Row Sp. (In.)		10	10	30	16	15	30	30	36
Rows/Plot		10	8	4	4	4	4	4	4
Reps		3	3	3	3	4	3	3	3

UNFORM TEST 0, 1994

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	39	40	36	23	37	37	41	38	30
Lambert (0)	6	16	6	6	3	11	19	8	12
Parker (I)	3	2	13	10	9	1	3	2	4
M89-1006	17	20	29	22	6	15	12	23	25
M89-1023	13	27	25	32	7	5	18	4	14
M89-1815	21	17	29	29	18	22	11	26	27
M90-916	10	12	36	11	15	3	15	5	10
ND88-597	15	19	9	12	17	17	10	21	23
ND88-599	21	41	15	13	25	12	17	19	19
ND88-709	41	37	8	40	41	40	40	41	41
ND88-800	27	22	11	32	23	26	34	33	18
ND90-750	18	35	21	21	5	6	20	11	38
ND90-1624	32	18	27	39	10	35	36	25	39
ND90-1858	39	39	40	23	39	39	35	37	29
ND90-2152	31	36	23	31	13	12	32	39	26
ND90-2233	35	30	41	38	34	20	31	35	21
ND90-2624	30	34	32	27	14	29	36	29	22
OT92-1	11	14	10	17	4	9	14	16	8
SL89-111	19	25	16	28	11	25	21	12	23
SL89-556	34	31	35	34	28	38	24	27	13
SL89-595	36	31	25	36	33	34	37	24	27
SL89-850	27	9	34	37	15	24	27	34	32
SL90-456	23	23	12	18	21	20	16	28	36
SL90-461	37	38	31	26	28	41	28	31	35
SL90-577	38	21	28	34	35	31	39	39	40
SL90-722	7	11	17	9	1	14	22	15	7
SL90-728	29	26	19	14	30	32	30	32	30
SL90-754	25	33	22	16	25	28	26	20	16
SL90-761	20	23	20	20	19	30	33	14	9
SL90-778	24	3	38	41	8	26	23	17	33
SL90-783	15	15	32	30	2	23	8	22	20
SL90-794	32	29	39	19	11	36	38	18	34
SL90-1092	14	9	17	7	27	19	13	29	14
SL90-1405	26	28	4	23	32	32	29	36	17
SL91-1763M	4	1	2	2	40	8	1	13	6
SL92-1233M	1	7	1	1	22	16	2	3	1
SL92-1272M	8	8	14	7	31	4	4	10	11
SL92-1323M	5	5	7	3	24	10	5	7	3
SL92-1357M	2	4	3	4	20	2	7	1	2
SL92-1401M	9	6	5	15	38	17	9	6	5
SL92-1461M	12	12	23	5	36	7	5	9	37

UNIFORM TEST 0, 1994

MATURITY (date)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	-6.5	-9	-7	-9	-8	-3	-7	-5	-4
Lambert (0)	09/18	09/23	09/01	09/27	10/08	09/20	09/11	09/16	09/11
Parker (I)	8.8	2	9	6	8	8	15	8	14
M89-1006	0.6	-2	1	-2	6	0	0	0	2
M89-1023	2.1	-7	-1	3	7	8	1	5	1
M89-1815	-3.6	-8	0	-10	-2	-3	-1	-3	-2
M90-916	0.5	-3	1	1	1	1	2	1	0
ND88-597	-1.3	-6	1	-7	2	0	-1	0	1
ND88-599	-1.9	-8	0	-5	2	0	-3	0	-1
ND88-709	-2.8	-2	1	-6	0	-3	-5	-1	-6
ND88-800	-0.6	-1	1	-1	-1	1	-1	-1	-2
ND90-750	-2.8	-7	-3	-4	-2	0	-1	-2	-3
ND90-1624	-4.6	-7	-4	-10	-4	-2	-3	-3	-4
ND90-1858	-2.3	-10	0	-4	1	1	-2	-2	-2
ND90-2152	-4.8	-5	-5	-7	-2	-2	-7	-6	-4
ND90-2233	-4.3	-6	-1	-7	-5	1	-6	-5	-5
ND90-2624	-7.6	-9	-7	-13	-10	-2	-8	-6	-6
OT92-1	1.8	1	5	2	4	1	1	-2	2
SL89-111	-4.8	-8	-2	-8	-6	-3	-3	-3	-5
SL89-556	-4.3	-9	-1	-8	-5	-2	-5	-2	-2
SL89-595	-2.8	-7	0	-1	-6	-1	-4	-1	-2
SL89-850	0.3	0	7	-4	6	0	-3	-2	-2
SL90-456	-2.4	-4	-2	-4	-3	-1	-3	-2	0
SL90-461	-6.6	-9	-7	-10	-8	-6	-5	-5	-3
SL90-577	-5.1	-8	-1	-8	-5	-6	-2	-5	-6
SL90-722	-2.6	-6	-1	-5	-3	0	-2	-4	0
SL90-728	-2.5	-6	6	-4	-4	-2	-2	-5	-3
SL90-754	-5.6	-9	-5	-8	-6	-5	-3	-3	-6
SL90-761	-1.1	-5	1	-2	1	0	-1	-2	-1
SL90-778	-3.4	-2	-2	-5	-7	-5	-2	-3	-1
SL90-783	-1.1	-3	0	-4	1	0	-1	-1	-1
SL90-794	-5.0	-7	-3	-9	-7	-5	-3	-4	-2
SL90-1092	-0.8	-4	1	-1	3	3	-5	-2	-1
SL90-1405	-4.1	-7	0	-7	-3	0	-6	-5	-5
SL91-1763M	8.6	7	10	7	11	14	9	5	6
SL92-1233M	2.9	-2	3	2	6	4	5	2	3
SL92-1272M	2.9	-1	4	4	6	1	5	1	3
SL92-1323M	4.4	0	8	4	6	5	6	2	4
SL92-1357M	5.1	5	6	2	7	6	7	2	6
SL92-1401M	7.0	0	8	7	7	9	8	7	10
SL92-1461M	5.5	-1	8	7	8	8	7	5	2
Date Planted	05/17	05/17	05/10	05/12	05/28	05/30	05/13	05/11	05/18
Days to Mature	124.0	129	114	138	133	113	121	128	116

UNIFORM TEST 0, 1994

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	1.3	1.3	1.0	1.7	2.2	1.0	1.0	1.0	1.0
Lambert (0)	1.6	1.0	2.0	2.0	2.3	1.1	1.0	2.0	1.3
Parker (I)	2.6	2.0	2.7	4.3	3.0	1.1	1.0	4.0	2.7
M89-1006	1.3	1.0	1.0	2.0	2.2	1.0	1.0	1.0	1.0
M89-1023	1.9	2.0	2.0	2.7	2.5	1.0	1.0	3.0	1.0
M89-1815	2.0	2.0	1.7	2.3	2.3	1.0	2.0	3.0	1.3
M90-916	1.9	1.3	1.7	3.0	2.0	1.0	2.0	3.0	1.0
ND88-597	1.4	1.3	2.0	1.0	2.0	1.0	1.0	2.0	1.0
ND88-599	1.6	1.3	1.7	2.3	2.2	1.0	1.0	2.0	1.0
ND88-709	2.4	2.3	2.7	2.7	3.2	1.0	2.0	3.0	2.3
ND88-800	1.9	1.7	1.7	2.7	2.4	1.0	1.0	3.0	1.3
ND90-750	2.0	1.7	1.7	2.7	2.4	1.1	1.0	4.0	1.7
ND90-1624	2.1	2.3	2.0	1.7	2.4	1.0	2.0	4.0	1.7
ND90-1858	1.8	1.3	1.0	2.3	2.3	1.0	2.0	3.0	1.7
ND90-2152	2.6	2.3	2.7	3.7	2.6	1.0	2.0	4.0	2.7
ND90-2233	2.3	2.7	2.3	2.3	2.4	1.0	2.0	3.0	3.0
ND90-2624	1.4	2.3	1.7	2.0	1.4	1.1	1.0	1.0	1.0
OT92-1	2.2	1.7	2.0	2.7	2.3	1.0	2.0	4.0	2.0
SL89-111	1.8	2.0	2.0	1.7	2.1	1.0	1.0	3.0	1.7
SL89-556	1.4	1.3	1.3	1.3	2.2	1.0	1.0	2.0	1.0
SL89-595	1.4	1.0	1.7	1.7	1.7	1.0	1.0	2.0	1.0
SL89-850	1.7	2.0	1.3	1.3	2.3	1.0	2.0	2.0	1.7
SL90-456	1.4	1.7	1.3	1.3	2.0	1.0	1.0	2.0	1.0
SL90-461	1.4	1.3	2.0	1.0	1.5	1.0	1.0	2.0	1.0
SL90-577	1.5	1.7	2.3	1.0	1.6	1.1	1.0	2.0	1.3
SL90-722	1.7	1.3	1.7	1.7	2.2	1.0	2.0	2.0	1.3
SL90-728	1.8	2.0	2.0	2.0	2.1	1.0	2.0	2.0	1.0
SL90-754	1.5	1.3	1.7	2.3	2.0	1.0	1.0	2.0	1.0
SL90-761	1.7	1.0	2.0	2.0	2.1	1.0	2.0	2.0	1.3
SL90-778	2.2	2.0	2.0	3.3	2.3	1.3	2.0	3.0	2.0
SL90-783	1.7	2.0	2.0	2.0	2.6	1.0	2.0	1.0	1.3
SL90-794	1.3	1.3	1.3	1.3	2.1	1.0	1.0	1.0	1.0
SL90-1092	1.4	1.0	1.3	2.0	2.0	1.0	1.0	2.0	1.0
SL90-1405	1.9	1.7	2.0	2.3	2.1	1.0	2.0	3.0	1.0
SL91-1763M	2.0	2.0	1.0	2.0	3.0	1.0	2.0	3.0	1.7
SL92-1233M	1.7	1.0	2.0	3.0	2.2	1.0	1.0	2.0	1.0
SL92-1272M	1.5	1.0	1.0	3.0	2.1	1.0	1.0	2.0	1.0
SL92-1323M	1.2	1.3	1.0	1.0	1.5	1.0	1.0	2.0	1.0
SL92-1357M	1.5	1.0	2.0	2.0	2.0	1.0	1.0	2.0	1.0
SL92-1401M	2.4	1.3	2.0	3.3	3.0	1.0	2.0	4.0	2.3
SL92-1461M	1.9	1.0	2.0	4.0	2.5	1.0	2.0	2.0	1.0

UNIFORM TEST 0, 1994

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	30	25	34	32	34	27	21	33	34
Lambert (0)	33	30	38	36	38	30	25	33	36
Parker (I)	40	39	45	40	47	36	31	42	39
M89-1006	39	37	42	42	42	32	31	40	43
M89-1023	40	38	43	42	42	36	28	47	42
M89-1815	37	37	40	39	40	33	33	35	39
M90-916	41	41	43	41	41	37	35	44	42
ND88-597	34	33	39	31	37	29	30	36	35
ND88-599	34	29	38	36	36	31	28	36	40
ND88-709	31	28	37	31	34	26	26	33	34
ND88-800	36	35	41	39	38	30	28	38	38
ND90-750	37	32	41	36	42	34	27	42	39
ND90-1624	31	30	35	29	34	26	25	35	32
ND90-1858	31	28	32	34	36	27	25	26	36
ND90-2152	30	29	32	35	35	28	24	22	34
ND90-2233	36	35	39	39	39	34	26	35	38
ND90-2624	30	28	35	32	34	27	22	28	35
OT92-1	35	37	40	37	40	32	27	30	38
SL89-111	33	30	37	35	37	31	22	32	36
SL89-556	32	31	36	34	35	27	24	33	35
SL89-595	32	30	34	35	33	29	25	33	36
SL89-850	34	35	36	36	38	29	26	36	35
SL90-456	30	31	34	29	30	27	21	36	31
SL90-461	29	27	32	31	30	26	23	30	31
SL90-577	30	30	35	29	34	26	23	30	33
SL90-722	37	35	39	41	38	32	31	37	39
SL90-728	38	38	39	40	41	31	34	41	40
SL90-754	32	29	35	34	36	26	29	37	33
SL90-761	38	33	39	40	44	32	33	40	41
SL90-778	38	39	39	41	42	32	31	37	39
SL90-783	37	36	41	39	44	32	29	36	39
SL90-794	31	28	33	35	33	25	27	35	34
SL90-1092	34	32	38	37	35	29	28	36	35
SL90-1405	34	30	38	35	39	30	28	34	35
SL91-1763M	36	38	39	37	39	33	33	36	36
SL92-1233M	35	32	41	39	37	29	30	35	37
SL92-1272M	37	35	41	40	39	31	31	38	39
SL92-1323M	34	34	38	36	36	28	27	37	34
SL92-1357M	32	31	37	35	30	28	27	34	34
SL92-1401M	36	35	40	37	42	34	28	37	38
SL92-1461M	36	33	40	37	38	33	27	41	35

UNIFORM TEST 0, 1994

SEED QUALITY (score)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	1.7	1.7	1.7	2.0	1.5	1.5	2.0	2.0	1.0
Lambert (0)	1.6	1.3	1.7	1.0	1.7	2.0	3.0	1.0	1.3
Parker (I)	1.9	1.7	1.7	1.0	2.0	1.5	3.0	2.0	2.0
M89-1006	1.8	1.3	1.3	2.0	1.5	1.5	3.0	2.0	1.7
M89-1023	1.5	1.3	1.7	1.0	2.0	2.0	2.0	1.0	1.3
M89-1815	1.6	1.7	1.7	2.0	1.7	1.5	2.0	1.0	1.5
M90-916	1.7	1.3	2.0	2.0	2.1	1.5	2.0	1.0	1.3
ND88-597	1.6	2.0	1.3	2.0	1.3	1.5	2.0	1.0	1.7
ND88-599	1.6	1.3	1.7	2.0	2.0	1.5	2.0	1.0	1.0
ND88-709	2.1	2.0	2.0	3.0	2.1	2.0	2.0	2.0	1.7
ND88-800	2.2	2.3	1.3	4.0	1.6	2.5	2.0	2.0	1.7
ND90-750	1.4	1.3	1.3	2.0	1.2	1.5	2.0	1.0	1.2
ND90-1624	2.0	1.3	2.0	3.0	2.0	2.5	2.0	1.0	2.2
ND90-1858	2.7	1.7	2.7	2.0	3.0	2.0	4.0	3.0	2.8
ND90-2152	1.5	1.3	1.3	3.0	1.7	1.5	1.0	1.0	1.0
ND90-2233	2.4	2.0	1.7	4.0	1.3	2.5	3.0	3.0	2.0
ND90-2624	1.8	1.7	1.7	2.0	1.7	1.5	2.0	2.0	1.7
OT92-1	1.7	2.0	1.3	2.0	1.7	1.5	2.0	2.0	1.3
SL89-111	2.0	2.3	1.7	2.0	1.7	2.0	3.0	2.0	1.3
SL89-556	1.7	1.7	1.7	1.0	1.6	1.5	3.0	2.0	1.3
SL89-595	1.9	2.0	1.3	2.0	1.1	2.0	3.0	2.0	1.5
SL89-850	1.6	1.7	1.7	1.0	1.4	1.0	2.0	2.0	1.8
SL90-456	1.3	1.7	1.0	1.0	1.2	1.5	2.0	1.0	1.2
SL90-461	1.5	2.0	1.7	1.0	1.6	1.5	1.0	2.0	1.2
SL90-577	1.7	2.0	1.3	2.0	1.6	1.5	2.0	2.0	1.5
SL90-722	1.8	1.7	1.3	2.0	1.5	1.5	3.0	2.0	1.5
SL90-728	1.9	2.0	1.3	3.0	1.8	2.0	3.0	1.0	1.2
SL90-754	1.4	1.7	1.0	2.0	1.7	1.5	1.0	1.0	1.3
SL90-761	2.0	1.7	1.3	3.0	2.0	2.5	2.0	2.0	1.3
SL90-778	1.9	1.7	1.3	2.0	1.7	1.5	2.0	3.0	1.7
SL90-783	1.7	1.7	1.0	2.0	2.1	1.5	2.0	2.0	1.3
SL90-794	1.5	2.0	1.3	2.0	1.3	2.0	1.0	1.0	1.0
SL90-1092	1.7	1.7	1.7	2.0	2.0	1.5	1.0	2.0	1.7
SL90-1405	1.9	1.7	1.7	2.0	1.8	1.5	2.0	3.0	1.3
SL91-1763M	1.9	1.7	2.0	1.0	2.1	2.5	2.0	2.0	1.5
SL92-1233M	1.4	1.3	1.7	2.0	1.5	1.5	1.0	1.0	1.3
SL92-1272M	1.6	1.7	1.7	1.0	2.1	1.5	1.0	2.0	1.5
SL92-1323M	1.5	1.3	1.7	1.0	2.0	1.5	1.0	2.0	1.7
SL92-1357M	1.5	1.3	1.3	1.0	2.0	1.5	1.0	2.0	1.7
SL92-1401M	1.5	1.7	1.0	1.0	1.7	1.5	2.0	2.0	1.2
SL92-1461M	1.6	1.3	1.3	1.0	2.1	1.5	2.0	2.0	1.5

UNIFORM TEST 0, 1994

SEED SIZE (g/100)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	Brook-ings SD	Water-town SD	Spooner WI
Agassiz (0)	15.0	16.3	14.0	15.6	14.6	15.4	15.0	16.0	13.4
Lambert (0)	16.8	18.4	16.3	17.8	16.8	16.4	17.0	16.0	15.5
Parker (I)	18.1	20.0	16.6	17.1	18.9	17.3	19.0	19.0	16.7
M89-1006	16.3	18.1	15.5	17.3	17.5	15.4	15.0	17.0	14.4
M89-1023	15.6	18.2	15.6	15.3	16.3	13.8	15.0	17.0	13.4
M89-1815	17.0	19.5	16.6	17.2	17.3	16.3	17.0	17.0	14.9
M90-916	18.6	22.7	17.3	18.5	18.5	16.7	19.0	20.0	15.8
ND88-597	16.7	18.2	15.5	17.0	17.4	15.7	17.0	18.0	14.5
ND88-599	16.8	18.9	16.4	17.5	17.1	16.4	17.0	16.0	14.9
ND88-709	17.9	19.6	17.9	18.6	17.8	17.2	17.0	18.0	17.4
ND88-800	18.7	21.2	19.0	19.5	18.8	18.3	18.0	18.0	17.0
ND90-750	17.4	20.3	16.1	17.5	17.8	16.5	19.0	17.0	14.6
ND90-1624	16.8	19.2	16.2	16.3	17.9	16.8	16.0	17.0	15.1
ND90-1858	17.0	17.7	16.9	17.4	16.6	16.7	17.0	18.0	15.3
ND90-2152	19.4	22.1	18.2	19.6	19.6	18.6	19.0	19.0	19.3
ND90-2233	20.7	23.4	20.3	20.6	20.5	20.3	19.0	21.0	20.3
ND90-2624	17.3	19.7	16.0	17.1	18.0	17.3	18.0	16.0	16.3
OT92-1	15.4	17.0	14.4	14.8	16.9	14.0	17.0	15.0	14.2
SL89-111	16.5	17.9	16.0	16.7	16.5	15.5	18.0	17.0	14.5
SL89-556	16.0	17.7	15.3	16.6	16.0	15.5	16.0	16.0	14.9
SL89-595	15.9	17.4	15.1	16.3	15.9	15.3	16.0	17.0	14.2
SL89-850	15.4	16.7	14.8	15.6	15.6	14.3	15.0	17.0	14.2
SL90-456	15.9	17.4	15.1	15.8	16.4	14.4	16.0	17.0	15.3
SL90-461	16.5	17.8	15.2	17.0	16.1	16.0	17.0	17.0	16.0
SL90-577	18.1	20.3	18.0	20.3	18.5	16.7	17.0	18.0	16.3
SL90-722	16.3	18.4	15.2	16.5	16.8	16.0	17.0	16.0	14.7
SL90-728	17.1	18.8	17.6	17.6	17.4	16.5	17.0	17.0	14.8
SL90-754	17.3	20.1	16.6	16.7	17.5	16.4	18.0	18.0	14.7
SL90-761	16.8	18.6	16.5	15.9	17.3	16.3	18.0	17.0	14.7
SL90-778	16.8	18.5	15.6	16.5	17.4	15.8	18.0	17.0	15.7
SL90-783	17.1	18.5	16.6	16.1	18.0	16.1	18.0	18.0	15.2
SL90-794	19.1	21.5	18.4	20.1	19.7	18.6	19.0	18.0	17.6
SL90-1092	16.3	19.9	16.0	17.0	16.9	15.7	16.0	15.0	14.2
SL90-1405	17.4	20.9	16.3	17.5	16.9	16.7	18.0	17.0	15.9
SL91-1763M	18.7	19.0	18.5	23.0	19.3	17.4	19.0	18.0	15.1
SL92-1233M	20.1	21.3	20.7	21.2	20.4	18.6	21.0	19.0	18.5
SL92-1272M	17.8	19.4	16.6	17.6	18.8	16.7	18.0	19.0	16.2
SL92-1323M	20.3	21.9	18.5	21.4	19.9	19.9	21.0	21.0	18.8
SL92-1357M	17.7	18.7	16.3	17.4	17.8	17.0	20.0	18.0	16.5
SL92-1401M	14.6	16.8	13.0	14.5	15.3	13.3	16.0	15.0	13.1
SL92-1461M	19.9	17.9	16.4	21.8	20.6	20.0	22.0	23.0	17.5

UNIFORM TEST 0, 1994

PROTEIN (%)

Strain	Mean 3 Tests	Fargo ND	Woodstock Ont.	Watertown SD
Agassiz (0)	43.3	41.4	44.3	44.3
Lambert (0)	43.6	41.5	46.1	43.1
Parker (I)	42.1	39.9	44.4	41.9
M89-1006	43.2	42.7	44.8	42.2
M89-1023	42.1	41.0	42.9	42.5
M89-1815	41.1	39.8	42.6	41.0
M90-916	42.2	40.8	44.2	41.5
ND88-597	41.4	39.7	43.2	41.3
ND88-599	42.3	41.3	43.1	42.4
ND88-709	39.8	38.2	41.8	39.4
ND88-800	42.7	41.1	44.1	43.0
ND90-750	42.4	41.1	44.8	41.4
ND90-1624	42.7	41.4	44.6	42.1
ND90-1858	42.3	42.3	44.4	40.1
ND90-2152	42.1	41.1	44.2	41.0
ND90-2233	41.3	40.3	42.6	41.0
ND90-2624	42.5	41.3	43.8	42.3
OT92-1	40.8	40.2	42.4	39.9
SL89-111	41.0	40.0	42.3	40.6
SL89-556	42.6	41.1	44.6	42.1
SL89-595	40.9	40.1	42.7	39.9
SL89-850	42.5	41.9	43.0	42.5
SL90-456	41.8	40.9	43.6	41.0
SL90-461	41.7	40.1	44.1	41.0
SL90-577	42.8	41.4	45.0	41.9
SL90-722	41.5	41.5	41.7	41.4
SL90-728	42.6	41.7	43.4	42.8
SL90-754	42.7	41.2	44.5	42.4
SL90-761	41.8	40.5	43.8	41.1
SL90-778	42.6	41.0	44.7	42.2
SL90-783	42.6	41.2	44.3	42.2
SL90-794	42.8	40.7	45.2	42.4
SL90-1092	41.0	39.9	42.3	40.7
SL90-1405	41.1	40.6	42.2	40.5
SL91-1763M	42.3	41.6	42.4	42.9
SL92-1233M	44.0	42.1	45.4	44.5
SL92-1272M	42.4	40.4	45.2	41.7
SL92-1323M	43.9	42.4	45.6	43.7
SL92-1357M	41.9	40.4	43.3	41.9
SL92-1401M	41.8	40.6	43.7	41.2
SL92-1461M	43.5	42.1	47.1	41.4

UNIFORM TEST 0, 1994

OIL (%)

Strain	Mean 3 Tests	Fargo ND	Woodstock Ont.	Watertown SD
Agassiz (0)	19.6	20.5	18.9	19.4
Lambert (0)	19.6	20.8	18.5	19.4
Parker (I)	19.2	20.4	18.2	19.1
M89-1006	19.7	20.1	20.0	19.1
M89-1023	20.1	21.3	20.2	18.9
M89-1815	20.0	20.7	19.8	19.6
M90-916	19.9	21.0	19.0	19.8
ND88-597	19.6	20.2	19.0	19.5
ND88-599	19.6	20.9	18.8	19.2
ND88-709	19.2	19.9	18.7	19.0
ND88-800	19.8	20.7	19.3	19.5
ND90-750	19.5	20.2	18.5	19.8
ND90-1624	19.5	20.1	19.3	19.0
ND90-1858	19.0	19.8	18.4	18.8
ND90-2152	19.1	19.3	18.9	19.2
ND90-2233	19.3	20.3	18.6	19.1
ND90-2624	19.3	19.8	19.7	18.4
OT92-1	19.9	20.6	19.4	19.6
SL89-111	20.1	20.6	20.0	19.8
SL89-556	19.7	20.4	19.4	19.4
SL89-595	19.6	20.0	19.1	19.6
SL89-850	19.3	19.8	19.0	19.0
SL90-456	20.1	20.8	19.5	20.1
SL90-461	19.9	21.0	19.3	19.4
SL90-577	19.1	20.0	18.3	19.0
SL90-722	20.1	20.8	19.9	19.7
SL90-728	19.9	20.0	20.5	19.2
SL90-754	19.5	20.2	19.3	18.9
SL90-761	19.9	20.9	19.0	19.7
SL90-778	19.6	20.5	18.7	19.7
SL90-783	19.4	20.1	18.8	19.4
SL90-794	19.0	20.2	18.2	18.6
SL90-1092	20.1	20.3	20.7	19.4
SL90-1405	19.7	20.2	20.1	18.8
SL91-1763M	19.6	20.2	19.8	18.8
SL92-1233M	19.0	20.0	18.5	18.6
SL92-1272M	20.1	21.3	19.4	19.7
SL92-1323M	19.1	19.8	18.8	18.8
SL92-1357M	19.3	20.2	18.8	18.9
SL92-1401M	19.5	20.2	18.4	20.0
SL92-1461M	19.2	19.9	18.4	19.3

UNIFORM TEST I, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Archer (BSR)	Williams 82 and PRX54-59 x BSR 101	1	BC4 F3	Rps1-k, Rps6
Lambert (0)	M75-274 x M76-151	2	F5	Rps1
Parker (I)	A79-136012 x Dawson	5	F5	Rps1
Sturdy (L)	M70-127 x Century	7	F5	
Marcus	A79-135010 x Asgrow A1937	1	F5	
A Marcus BC	(Marcus5 x Elgin 87) x (Marcus5 x Preston BC-11-8)	1	BC4 F2	Rps1-k, Rps6
A92-525014	IA2008 x Kenwood	PTI	F5	BSR resis.
A92-625002	Kenwood x LN86-1947	PTI	F5	BSR resis.
M87-1621 (SCN)	Ozzie x Fayette	3	F8	Rps1 SCN 3
M89-783	J231 x Kato	PTI	F4	Rps1
M89-895	M84-492 x Sturdy	PTI	F5	Rps1-c, Hm
M89-936	M84-492 x M74-498	PTI	F5	Het. Rps1
M89-1644	Cartter x M85-627	1	F5	Rps1,SCN 3
M89-1665	Cartter x M85-933	SCN UTI	F5	Rps1,SCN 3
ORC9201	Conrad x RCAT Alliance	UTO	F5	
ORC9205	Conrad x RCAT Alliance	PTI	F5	

* Number of years in test or name of 1993 test.

UNIFORM TEST I, 1994

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Manhattan
Archer (BSR)	PGTSYIbI	3.5	4.0	1	1
Lambert (0)	PGBSYBfI	3.4	2.5	1	1
Parker (I)	WGBDYIbI	4.0	3.0	5	1
Sturdy (L)	PGBDYIbI	3.0	3.5	5	1
Marcus	WTTIYBlI	4.1	5.0	3	1
A Marcus BC	WTB+TIYBrI	4.1	4.5	3	1
A92-525014	WTBSYBlI	3.4	4.0	1	1
A92-625002	PTBDYBlI	3.6	4.0	5	1
M87-1621 (SCN)	WTBIYBlI	3.2	3.0	5	1
M89-783	PTBDYBlI	3.0	3.5	4	1
M89-895	PGBDYBfI	3.0	4.0	5	1
M89-936	WGBDYYI	3.1	4.5	2	1
M89-1644	WTBSYBlI	3.0	3.5	4	1
M89-1665	PTTDYBlI	2.9	4.0	1	1
ORC9201	PTBDYBfI	4.2	4.0	5	1
ORC9205	PTTDYYI	4.1	5.0	3	1

DISEASE DATA

Strain	BSR-Boone Plant n %	BSR-Boone Stem n %	PR Custar Root Rot Race 25	PR Ames Race 4	PR Lafayette Race 7	PS Lafayette a %
Archer (BSR)	85.0	20.3	3.5	R	R	41
Lambert (0)	88.2	36.7	7.0	S	S	44
Parker (I)	100.0	56.0	5.0	S	S	58
Sturdy (L)	100.0	64.4	5.4	S	S	25
Marcus	95.0	60.6	6.6	S	S	78
A Marcus BC	80.0	32.4	4.2	R	R	60
A92-525014	80.0	26.2	4.3	S	S	21
A92-625002	80.0	15.4	5.3	S	S	26
M87-1621 (SCN)	90.0	60.1	4.3	S	S	57
M89-783	95.0	67.6	5.3	S	S	41
M89-895	95.0	58.8	4.4	S	R	54
M89-936	95.0	69.5	4.8	S	R	22
M89-1644	95.0	52.1	4.2	S	S	35
M89-1665	75.0	14.4	6.8	S	S	8
ORC9201	85.0	59.0	4.2	S	S	13
ORC9205	95.0	45.9	4.0	S	S	36

UNIFORM TEST I, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 11 Date	Lodging 14 Score	Plant Height 14 In.	Seed Quality 14 Score	Seed Size 13 g/100	Composition Protein 3 %	 Oil 3 %
Archer (BSR)	51.6	11	2.9	2.0	38	2.2	17.8	40.2	20.0
Lambert (0)	46.4	16	-8.4	1.7	32	1.9	17.3	42.2	20.3
Parker (I)	55.0	6	09/17	2.8	38	1.8	18.4	40.9	20.2
Sturdy (L)	55.1	5	5.1	2.2	37	1.8	19.6	40.9	20.0
Marcus	54.5	7	3.1	2.0	35	1.9	17.9	40.2	20.0
A Marcus BC	56.4	3	4.2	2.2	36	1.9	18.6	40.5	20.1
A92-525014	57.6	1	1.5	2.3	40	1.8	18.4	41.3	20.0
A92-625002	55.5	4	3.1	2.1	33	1.6	17.7	41.2	19.9
M87-1621 (SCN)	52.3	9	1.4	2.0	35	1.6	18.3	43.0	20.2
M89-783	52.3	9	-2.2	2.1	39	1.7	20.3	41.6	19.9
M89-895	53.7	8	1.4	1.9	38	1.8	21.3	41.3	19.8
M89-936	49.3	14	-5.1	1.9	38	1.8	17.3	41.7	19.7
M89-1644	50.0	13	3.8	3.2	39	1.7	15.8	39.9	20.3
M89-1665	48.4	15	-4.0	2.2	35	1.7	15.5	41.3	19.2
ORC9201	51.4	12	-5.9	1.9	37	1.8	17.4	39.7	20.2
ORC9205	56.9	2	2.1	2.2	41	1.5	17.9	40.7	19.8

124.5 Days After Planting

1993-1994 2-YEAR MEAN

No. of Tests Strain	Yield 29 bu/a	Rank 29 No.	Maturity 24 Date	Lodging 30 Score	Plant Height 30 In.	Seed Quality 30 Score	Seed Size 28 g/100	Composition Protein 8 %	 Oil 8 %
Archer (BSR)	47.3	5	3.1	1.7	35	1.9	16.7	39.8	20.0
Lambert (0)	41.1	8	-5.5	1.5	28	1.8	16.8	41.6	20.3
Parker (I)	49.7	3	09/19.0	2.3	34	1.8	17.8	40.6	20.2
Sturdy (L)	49.3	4	5.3	1.9	34	1.8	18.3	40.3	19.9
Marcus	49.9	2	3.5	1.8	31	1.9	16.8	40.4	20.1
A Marcus BC	51.8	1	4.3	1.9	32	1.9	17.5	40.4	20.0
M87-1621 (SCN)	45.9	6	1.7	1.6	30	1.6	17.5	42.1	20.1
M89-1644	45.5	7	3.9	2.6	35	1.7	14.5	39.8	20.1

124.4 Days After Planting

1992-1994 3-YEAR MEAN

No. of Tests Strain	43	43	35	45	45	43	42	13	13
Lambert (0)	41.5	4	-5.6	1.6	28	1.8	16.8	41.4	20.0
Parker (I)	49.6	1	09/20.0	2.5	35	1.8	17.7	40.1	19.9
Strudy (L)	48.7	2	5.2	2.0	34	1.9	18.5	40.3	19.7
M87-1621 (SCN)	45.2	3	2.1	1.7	31	1.7	18.1	41.5	19.9

126.9 Days After Planting

UNIFORM TEST I, 1994

YIELD (bu/a)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Pomeroy IA	Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
Archer (BSR)	51.6	51.7	54.0	51.5	60.9	57.0	55.8	57.5
Lambert (0)	46.4	52.6	55.5	40.3	44.7	51.3	56.0	47.0
Parker (I)	55.0	60.7	56.9	56.3	50.5	61.3	66.3	53.9
Sturdy (L)	55.1	59.8	59.1	45.5	61.7	58.2	63.4	47.4
Marcus	54.5	60.2	63.2	49.2	57.2	55.4	60.0	47.9
A Marcus BC	56.4	59.9	61.7	54.1	55.3	57.8	65.1	52.9
A92-525014	57.6	57.2	56.2	56.0	58.5	66.1	67.7	59.1
A92-625002	55.5	54.2	59.4	52.1	57.7	63.3	68.3	56.9
M87-1621 (SCN)	52.3	57.8	55.0	50.8	53.7	61.6	58.5	51.5
M89-783	52.3	58.5	54.8	45.4	52.8	56.9	56.0	49.2
M89-895	53.7	56.3	59.8	49.1	54.1	52.0	60.2	56.0
M89-936	49.3	56.5	56.2	45.6	51.5	43.2	55.2	55.2
M89-1644	50.0	56.2	52.7	49.1	55.6	51.3	59.2	46.2
M89-1665	48.4	51.8	51.3	48.9	47.8	54.5	56.8	48.1
ORC9201	51.4	53.2	57.1	49.4	53.9	59.8	57.8	52.1
ORC9205	56.9	56.9	57.9	55.2	64.9	64.0	64.0	55.6
C.V. (%)		4.8	3.5	10.5	8.0	8.2	9.1	9.9
L.S.D. (5%)		4.5	3.3	8.7	7.3	10.0	9.3	8.7
Row Sp. (In.)		27	27	27	24	30	10	10
Rows/Plot		4	4	4	4	4	8	10
Reps		3	3	3	3	2	3	3

UNIFORM TEST I, 1994

YIELD (bu/a)

Strain	Cedar Rapids NE	Harting-ton NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD	Arling-ton WI
Archer (BSR)	48.5	48.7	39.7	56.8	42.7	49.1	48.8
Lambert (O)	42.4	45.3	28.3	53.1	36.3	46.1	50.4
Parker (I)	52.8	55.1	41.0	66.4	47.4	56.9	45.0
Sturdy (L)	54.9	59.5	40.2	64.4	52.8	54.0	50.0
Marcus	53.6	56.5	43.7	61.8	48.6	55.2	49.9
A Marcus BC	53.1	57.9	46.5	62.4	48.7	61.4	52.2
A92-525014	54.3	53.3	43.3	73.4	49.2	58.4	54.0
A92-625002	53.8	58.7	36.2	59.5	48.4	58.8	49.0
M87-1621 (SCN)	47.3	51.5	39.2	56.7	43.7	52.0	52.8
M89-783	53.7	52.7	32.2	68.3	45.1	54.2	52.2
M89-895	54.9	54.3	40.4	59.1	45.9	56.1	53.8
M89-936	46.3	49.2	31.4	60.0	46.9	48.4	45.0
M89-1644	37.8	50.5	43.8	54.8	44.2	51.4	47.8
M89-1665	44.7	51.7	33.3	60.6	38.8	44.0	45.6
ORC9201	46.8	47.4	40.6	61.0	37.2	52.7	51.2
ORC9205	53.4	55.7	41.9	71.0	45.6	56.8	53.6
C.V. (%)	10.7	9.0	11.0	7.4	7.6	7.5	6.0
L.S.D. (5%)	7.4	5.9	7.3	6.5	4.8	5.6	5.0
Row Sp. (In.)	30	30	24	15	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	4	3	3	3

UNIFORM TEST I, 1994

YIELD RANK

Strain	Yield Rank	Greene IA	Kanawha IA	Pomeroy IA	Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
Archer (BSR)	11	16	14	6	3	9	15	2
Lambert (O)	16	14	11	16	16	14	13	15
Parker (I)	6	1	8	1	14	5	3	7
Sturdy (L)	5	4	5	14	2	7	6	14
Marcus	7	2	1	9	6	11	8	13
A Marcus BC	3	3	2	4	8	8	4	8
A92-525014	1	7	9	2	4	1	2	1
A92-625002	4	12	4	5	5	3	1	3
M87-1621 (SCN)	9	6	12	7	11	4	10	10
M89-783	9	5	13	15	12	10	13	11
M89-895	8	10	3	10	9	13	7	4
M89-936	14	9	9	13	13	16	16	6
M89-1644	13	11	15	10	7	15	9	16
M89-1665	15	15	16	12	15	12	12	12
ORC9201	12	13	7	8	10	6	11	9
ORC9205	2	8	6	3	1	2	5	5

MATURITY (date)

Strain	Mean 11 Tests					
Archer (BSR)	2.9	5	5	1	3	1
Lambert (O)	-8.4	-9	-8	-6	-15	-8
Parker (I)	09/17	09/10	09/04	09/19	09/26	09/20
Sturdy (L)	5.1	6	4	5	3	5
Marcus	3.1	6	4	0	2	4
A Marcus BC	4.2	6	5	2	4	7
A92-525014	1.5	2	3	0	2	1
A92-625002	3.1	4	4	2	3	2
M87-1621 (SCN)	1.4	1	0	1	1	2
M89-783	-2.2	-2	-2	-3	-8	-2
M89-895	1.4	3	-5	-2	3	3
M89-936	-5.1	-3	-7	-7	-10	-4
M89-1644	3.8	5	5	1	1	-1
M89-1665	-4.0	-3	-8	-6	-10	-4
ORC9201	-5.9	-5	-7	-8	-10	-5
ORC9205	2.1	4	4	0	3	1
Date Planted	05/15	05/09	05/20	05/16	05/16	05/09
Days to Mature	124.5	124	107	126	133	134

UNIFORM TEST I, 1994

YIELD RANK

Strain	Cedar Rapids NE	David City NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD	Arling-ton WI
Archer (BSR)	10	14	10	13	13	13	12
Lambert (0)	15	16	16	16	16	15	8
Parker (I)	9	6	6	4	6	4	15
Sturdy (L)	1	1	9	5	1	9	9
Marcus	6	4	3	7	4	7	10
A Marcus BC	8	3	1	6	3	1	5
A92-525014	3	8	4	1	2	3	1
A92-625002	4	2	12	11	5	2	11
M87-1621 (SCN)	11	11	11	14	12	11	4
M89-783	5	9	14	3	10	8	5
M89-895	1	7	8	12	8	6	2
M89-936	13	13	15	10	7	14	15
M89-1644	16	12	2	15	11	12	13
M89-1665	14	10	13	9	14	16	14
ORC9201	12	15	7	8	15	10	7
ORC9205	7	5	5	2	9	5	3

MATURITY (date)

Strain						
Archer (BSR)	1	1	6	0	2	7
Lambert (0)	-7	-7	-6	-12	-8	-6
Parker (I)	09/13	09/14	09/16	09/24	09/23	09/23
Sturdy (L)	4	3	7	2	5	12
Marcus	2	3	5	0	-2	10
A Marcus BC	3	4	6	1	-1	9
A92-525014	2	1	3	-4	0	7
A92-625002	4	3	3	-1	-1	11
M87-1621 (SCN)	1	1	4	-2	2	4
M89-783	1	-1	-1	-4	-1	-1
M89-895	3	0	3	-1	3	5
M89-936	-4	-2	-2	-7	-7	-3
M89-1644	3	2	7	1	7	11
M89-1665	-1	-1	0	-6	-3	-2
ORC9201	-3	-2	-4	-11	-5	-5
ORC9205	2	1	6	-4	3	3
Date Planted	05/24	05/25	05/13	05/13	05/11	05/19
Days to Mature	112	112	126	134	135	127

UNIFORM TEST I, 1994

LODGING (score)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Pomeroy IA	Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
Archer (BSR)	2.0	2.8	1.9	2.1	1.8	3.0	1.7	2.0
Lambert (0)	1.7	2.0	1.7	1.7	2.0	2.0	1.7	2.7
Parker (I)	2.8	4.2	3.0	2.8	2.7	4.0	3.0	2.7
Sturdy (L)	2.2	3.2	2.0	2.0	2.2	3.5	1.7	2.0
Marcus	2.0	2.8	1.8	2.1	2.0	3.0	2.3	2.0
A Marcus BC	2.2	2.6	1.8	2.2	1.8	3.5	2.7	2.3
A92-525014	2.3	3.5	2.0	1.9	2.0	2.0	3.0	2.3
A92-625002	2.1	2.0	1.7	1.9	1.3	2.5	3.7	2.3
M87-1621 (SCN)	2.0	2.2	1.7	2.0	1.7	3.5	1.3	2.0
M89-783	2.1	3.1	2.0	2.3	1.5	3.5	1.3	3.0
M89-895	1.9	1.9	1.7	1.9	1.8	4.0	1.7	2.0
M89-936	1.9	2.1	1.8	2.0	2.0	3.5	1.0	2.3
M89-1644	3.2	4.6	2.4	2.5	3.5	5.0	3.3	3.7
M89-1665	2.2	2.7	1.8	1.8	2.0	3.5	1.3	3.0
ORC9201	1.9	2.4	1.7	1.8	1.5	3.5	1.0	2.0
ORC9205	2.2	3.5	2.0	2.1	1.8	3.0	2.3	2.3

PLANT HEIGHT (inches)

Strain	Mean 14 Tests							
Archer (BSR)	38	41	41	40	37	41	42	39
Lambert (0)	32	37	33	30	33	33	33	39
Parker (I)	38	40	38	37	39	36	43	38
Sturdy (L)	37	42	40	35	36	40	42	39
Marcus	35	40	37	36	34	38	39	37
A Marcus BC	36	41	39	39	35	41	39	37
A92-525014	40	43	44	41	38	43	44	38
A92-625002	33	38	37	33	31	32	42	34
M87-1621 (SCN)	35	38	36	36	33	35	36	37
M89-783	39	42	40	40	38	40	41	35
M89-895	38	42	41	37	37	42	42	36
M89-936	38	41	39	37	36	40	39	39
M89-1644	39	41	42	40	38	42	42	39
M89-1665	35	38	37	36	36	34	38	36
ORC9201	37	39	38	38	37	40	41	38
ORC9205	41	44	45	43	42	40	45	41

UNIFORM TEST I, 1994

LODGING (score)

Strain	Cedar Rapids NE	David City NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD	Arling-ton WI
Archer (BSR)	1.7	1.3	1.0	1.6	1.0	3.0	3.5
Lambert (0)	1.0	1.0	1.0	1.4	1.0	1.0	4.0
Parker (I)	2.7	1.3	1.0	2.0	2.0	4.0	4.0
Sturdy (L)	2.0	1.0	1.0	1.9	1.0	4.0	3.8
Marcus	1.3	1.0	1.0	1.5	1.0	3.0	3.7
A Marcus BC	1.3	1.0	1.0	2.0	2.0	3.0	3.5
A92-525014	2.0	1.3	1.0	1.6	2.0	4.0	3.5
A92-625002	1.7	1.0	1.0	1.3	2.0	3.0	3.3
M87-1621 (SCN)	1.3	1.0	1.0	1.3	2.0	3.0	3.5
M89-783	1.3	1.0	1.0	1.6	1.0	3.0	3.7
M89-895	1.7	1.0	1.0	1.3	1.0	3.0	3.2
M89-936	1.0	1.0	1.0	1.3	2.0	2.0	3.5
M89-1644	3.3	1.7	1.0	4.1	2.0	4.0	4.0
M89-1665	2.7	1.3	1.0	1.4	1.0	3.0	4.0
ORC9201	1.3	1.0	1.0	1.1	1.0	3.0	4.0
ORC9205	2.0	1.0	1.0	1.8	1.0	4.0	3.5

PLANT HEIGHT (inches)

Strain							
Archer (BSR)	36	41	25	37	36	41	38
Lambert (0)	28	32	17	33	25	31	38
Parker (I)	33	40	24	40	39	45	39
Sturdy (L)	33	40	22	39	33	38	39
Marcus	32	34	24	36	33	34	39
A Marcus BC	33	35	24	38	32	37	39
A92-525014	36	39	26	40	38	41	44
A92-625002	33	35	19	34	26	35	37
M87-1621 (SCN)	33	34	22	36	30	40	41
M89-783	36	40	22	43	38	43	41
M89-895	36	39	24	38	33	41	43
M89-936	34	40	21	40	33	44	42
M89-1644	38	39	25	39	33	43	40
M89-1665	32	37	22	38	32	40	36
ORC9201	34	39	25	38	30	43	37
ORC9205	35	45	25	43	43	43	42

UNIFORM TEST I, 1994

SEED QUALITY (score)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Pomeroy IA	Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
Archer (BSR)	2.2	2.0	1.5	2.5	1.0	2.0	3.3	2.0
Lambert (0)	1.9	2.0	2.5	2.5	1.0	1.5	1.3	1.3
Parker (I)	1.8	1.5	1.5	1.5	1.5	1.5	2.0	1.0
Sturdy (L)	1.8	1.5	1.5	2.0	1.0	1.5	1.3	1.3
Marcus	1.9	1.5	1.5	1.5	1.0	1.0	1.3	1.7
A Marcus BC	1.9	1.5	1.5	1.5	1.0	1.5	1.3	1.7
A92-525014	1.8	1.0	1.5	1.5	1.5	1.0	1.3	1.7
A92-625002	1.6	1.5	1.0	1.5	1.0	1.0	1.7	1.3
M87-1621 (SCN)	1.6	1.0	1.0	1.0	1.5	1.5	2.0	1.3
M89-783	1.7	1.5	1.0	1.5	1.5	1.0	1.7	1.7
M89-895	1.8	1.5	1.5	2.0	1.5	1.5	1.3	1.7
M89-936	1.8	1.5	1.5	1.5	1.5	1.5	1.7	1.7
M89-1644	1.7	1.0	1.0	2.0	1.0	1.5	2.0	1.3
M89-1665	1.7	1.0	1.0	1.5	1.0	1.0	1.3	1.7
ORC9201	1.8	2.0	1.5	1.0	1.0	2.0	1.3	1.3
ORC9205	1.5	1.5	1.0	1.5	1.0	1.5	1.0	1.7

SEED SIZE (g/100)

Strain	Mean 13 Tests							
Archer (BSR)	17.8	17.3	17.0	17.0	18.0	19.0	16.9	18.7
Lambert (0)	17.3	17.5	17.6	16.3	15.9	19.0	18.8	14.8
Parker (I)	18.4	18.0	18.0	17.4	16.8	19.5	19.6	17.6
Sturdy (L)	19.6	20.1	18.5	17.5	17.7	21.5	20.5	16.9
Marcus	17.9	17.8	17.6	16.6	16.8	20.4	18.5	14.8
A Marcus BC	18.6	18.4	18.2	18.1	17.2	21.2	19.2	17.5
A92-525014	18.4	17.2	17.2	17.5	16.8	21.0	19.1	16.6
A92-625002	17.7	17.8	17.5	17.5	16.3	19.9	16.3	16.6
M87-1621 (SCN)	18.3	19.7	17.6	17.4	16.7	22.1	18.8	17.2
M89-783	20.3	21.4	20.7	19.2	18.8	22.5	20.2	18.2
M89-895	21.3	21.7	20.4	19.2	19.8	23.8	21.7	19.9
M89-936	17.3	17.8	17.2	16.4	16.0	18.4	18.2	15.9
M89-1644	15.8	15.0	14.7	15.8	14.7	18.1	17.3	13.1
M89-1665	15.5	14.8	14.3	14.6	12.9	17.3	15.5	13.9
ORC9201	17.4	17.9	17.0	15.8	15.9	19.8	16.7	15.1
ORC9205	17.9	17.4	17.4	16.4	17.3	19.1	18.5	17.1

UNIFORM TEST I, 1994

SEED QUALITY (score)

Strain	Cedar Rapids NE	David City NE	Dutton Ont.	London Ont.	Brook-ings SD	Water-town SD	Arling-ton WI
Archer (BSR)	2.7	2.3	1.8	2.0	3.0	3.0	2.3
Lambert (0)	1.3	2.0	2.3	1.5	3.0	2.0	1.8
Parker (I)	2.0	2.0	1.9	1.5	2.0	2.0	2.8
Sturdy (L)	2.3	2.0	1.8	2.0	2.0	2.0	3.0
Marcus	1.7	2.0	4.6	2.0	2.0	2.0	2.7
A Marcus BC	2.0	2.0	4.4	2.0	2.0	2.0	2.3
A92-525014	2.3	2.0	4.2	1.5	2.0	2.0	1.8
A92-625002	1.7	1.7	2.3	1.5	2.0	2.0	2.3
M87-1621 (SCN)	2.0	2.0	2.7	1.5	2.0	1.0	1.7
M89-783	2.3	1.7	2.2	1.5	2.0	2.0	1.8
M89-895	2.0	2.3	2.1	1.5	2.0	2.0	2.3
M89-936	2.0	2.3	2.0	1.5	2.0	2.0	2.3
M89-1644	2.0	2.0	2.6	1.5	2.0	2.0	1.8
M89-1665	2.7	2.0	1.9	1.5	2.0	3.0	2.3
ORC9201	2.0	2.7	2.0	2.0	2.0	2.0	2.5
ORC9205	2.0	2.0	1.1	2.0	2.0	2.0	1.2

SEED SIZE (g/100)

Strain						
Archer (BSR)	18.6	19.8	18.6	16.0	16.0	18.0
Lambert (0)	19.2	18.4	16.7	16.0	17.0	18.2
Parker (I)	19.9	20.1	18.5	18.0	19.0	17.4
Sturdy (L)	20.3	21.2	20.9	19.0	20.0	20.1
Marcus	19.0	19.3	18.5	15.0	20.0	19.0
A Marcus BC	19.1	20.5	18.6	16.0	18.0	19.3
A92-525014	19.6	19.0	18.9	17.0	20.0	18.8
A92-625002	18.6	19.8	18.8	15.0	16.0	19.8
M87-1621 (SCN)	19.2	19.7	18.9	11.0	20.0	20.1
M89-783	22.7	21.4	20.7	17.0	20.0	21.3
M89-895	23.1	22.6	21.6	20.0	21.0	21.9
M89-936	18.7	19.9	18.8	17.0	12.0	18.7
M89-1644	14.1	16.4	16.8	13.0	19.0	16.9
M89-1665	17.0	17.4	16.5	14.0	16.0	16.8
ORC9201	18.1	18.7	17.3	17.0	19.0	17.9
ORC9205	19.0	19.1	18.6	16.0	18.0	18.7

UNIFORM TEST I, 1994

PROTEIN (%)

Strain	Mean 3 Tests	Kanawha IA	London Ont.	Watertown SD
Archer (BSR)	40.2	39.5	41.4	39.7
Lambert (O)	42.2	42.9	42.1	41.7
Parker (I)	40.9	40.4	41.6	40.8
Sturdy (L)	40.9	39.8	42.4	40.6
Marcus	40.2	39.7	40.9	40.0
A Marcus BC	40.5	39.2	41.7	----
A92-525014	41.3	40.3	42.3	----
A92-625002	41.2	41.0	41.9	40.7
M87-1621 (SCN)	43.0	41.9	42.2	44.8
M89-783	41.6	40.9	42.2	41.6
M89-895	41.3	40.8	42.0	41.1
M89-936	41.7	41.0	42.3	41.7
M89-1644	39.9	40.0	41.1	38.7
M89-1665	41.3	41.1	41.7	41.0
ORC9201	39.7	39.5	40.5	39.1
ORC9205	40.7	40.2	42.0	40.0

OIL (%)

Strain	Mean 3 Tests	Kanawha IA	London Ont.	Watertown SD
Archer (BSR)	20.0	20.3	19.9	19.9
Lambert (O)	20.3	20.5	20.0	20.5
Parker (I)	20.2	21.1	19.6	20.0
Sturdy (L)	20.0	20.0	20.0	20.1
Marcus	20.0	20.0	20.0	20.1
A Marcus BC	20.1	20.4	19.7	----
A92-525014	20.0	20.2	19.7	----
A92-625002	19.9	20.1	19.8	19.9
M87-1621 (SCN)	20.2	20.4	20.4	19.8
M89-783	19.9	20.8	19.4	19.5
M89-895	19.8	20.4	19.9	19.0
M89-936	19.7	19.8	20.1	19.3
M89-1644	20.3	19.9	20.7	20.3
M89-1665	19.2	19.4	19.2	19.0
ORC9201	20.2	20.0	20.7	19.9
ORC9205	19.8	19.7	20.0	19.8

PRELIMINARY TEST I, 1994

Strain	Parentage	Generation Composited	Unique Traits
Archer (BSR)	Williams 82 and PRX54-59 x BSR 101	BC4 F3	Rps1-k, Rps6
Lambert (0)	M75-274 x M76-151	F5	Rps1
Parker (I)	A79-136012 x Dawson	F5	Rps1
Sturdy (II)	M70-127 x Century	F5	
A93-552034	IA2008 x Kenwood	F5	BSR resis.
A93-554034	A86-301024 x Marcus	F5	
A93-554045	Northrup King S30-41 x Archer	F5	BSR resis.
A93-555023	[(A87-186035 x Dairyland DSR 284) x Asgrow A2234] x A87-187020	F5	Chlo. resis.
A93-555027	[(A87-186011 x Northrup King S23-12) x Asgrow A2234] x A87-187020	F5	Chlo. resis.
A93-555031	[(A87-186035 x Northrup King S23-12) x Sturdy] x A87-187020	F5	Chlo. resis.
A93-652003	IA2008 x Kenwood	F5	BSR resis.
M90-174	M83-377 x Simpson	F4	Rps6
M90-317	Weber x M83-16	F5	Rps1
M90-600	McCall x M81-18	F5	Rps1
M90-764	M83-442 x M81-18	F5	Rps1
M90-1022	Evans x Sturdy	F5	Rps1
M90-1106	Ozzie x A85-192034	F5	Rps1
M90-1278	BRS 101 x Kato	F5	Rps1
M90-1279	BRS 101 x Kato	F5	Rps1
M90-1283	BRS 101 x Kato	F5	Rps1
M90-1470	Sturdy x Hodgson BC_4	F5	Rps1-k
M90-1472	Sturdy x Hodgson BC_4	F5	Rps1-k
M90-1573	L1-5 x Glenwood	F5	Rps1
M90-1581	L1-5 x Glenwood	F5	Rps1
M90-1682	M82-1080 x Hoyt	F5	Rps1
M90-1712	M83-459 x Corsoy 79	F5	Rps1-c
M90-1838	J231 x Glenwood	F5	Rps1
M90-1857	W10186 x Kato	F5	Rps1
M90-2144	A85-193023 x Kato	F5	Rps1
ORC 9301	T8508 x OAC 86-07	F5	
ORC 9304	9292 x T8508	F5	
SL92-1179M	Sturdy x Kato	F5	
SL92-1194M	Sturdy x Kato	F5	
SL92-1201M	M86-714 x Kato	F5	
SL92-1207M	M86-1214 x Kato	F5	
SL92-1328M	Kasota x Kato	F5	
SL92-1362M	Hack x Lambert	F5	
SL92-1412M	M83-727 x A86-104011	F5	
SL92-2844M	Ozzie x A1214	F4	

PRELIMINARY TEST I, 1994

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score		Shattering Score
		Lamberton	Ames	Manhattan
Archer (BSR)	PGTSYIbI	4.0	3.2	1
Lambert (0)	PGBSYBfI	2.5	2.8	1
Parker (I)	WGBDYIbI	3.0	4.2	1
Sturdy (II)	PGBDYIbI	3.5	2.8	1
A93-552034	PGTDYIbI	3.5	3.8	1
A93-554034	WTBSYBl+BrI	3.5	3.3	1
A93-554045	PGTDYGrI	4.0	3.7	1
A93-555023	PGTIYGr+YI	3.0	2.3	1
A93-555027	PGBSYYI	4.5	3.8	1
A93-555031	PGBIYBfI	3.5	3.0	1
A93-652003	WGBIYBfI	3.0	2.8	2
M90-174	PGBDYIbI	3.0	3.7	1
M90-317	WGBDYBfI	4.0	3.3	1
M90-600	PGBSYYI	4.0	3.3	2
M90-764	WGBSYYI	4.0	4.0	2
M90-1022	WGBDYYI	3.5	3.2	1
M90-1106	PGBDYYI	4.0	3.7	1
M90-1278	PGTIYIbI	3.0	2.7	2
M90-1279	PTTIYBlI	4.5	3.3	1
M90-1283	PGBDYBfI	3.0	2.7	1
M90-1470	PGTIYIbI	4.0	3.3	1
M90-1472	PGBDYIbI	5.0	2.7	2
M90-1573	PTBSYBlI	4.5	3.3	1
M90-1581	PG+TBDYHetI	4.5	3.2	3
M90-1682	PTB+TDYBrSD	3.5	3.5	1
M90-1712	WGBDYYI	3.5	3.0	1
M90-1838	P+WGTDYIbI	4.5	3.5	1
M90-1857	P+WGBIYIbI	3.5	2.8	1
M90-2144	PTBDYBlI	4.0	3.7	1
ORC 9301	PTBSYYI	4.0	3.2	1
ORC 9304	PTBIYBrI	4.0	3.7	2
SL92-1179M	PGBIYIbI	4.0	3.2	1
SL92-1194M	PGBIYIbI	3.0	3.2	1
SL92-1201M	PTBIYBrI	4.0	3.5	2
SL92-1207M	PGBDYIbI	3.0	3.3	1
SL92-1328M	WTBIYBlI	3.5	2.8	1
SL92-1362M	PGB+TSYBfI	5.0	4.3	1
SL92-1412M	WTTDYBrI	5.0	4.2	1
SL92-2844M	WGBIYYI	4.0	4.2	1

PRELIMINARY TEST I, 1994

DISEASE DATA

Strain	BSR-Boone		PR			PS
	Plant n %	Stem n %	Custar Root Rot Race 25	Ames Race 4	Lafayette Race 7	Laf. a %
Archer (BSR)	50.0	13.8	3.7	R	R	41
Lambert (0)	95.0	54.9	6.9	S	S	44
Parker (I)	90.0	44.5	4.8	S	S	58
Sturdy (II)	95.0	66.8	4.6	S	S	25
A93-552034	90.0	30.5	4.7	S	S	46
A93-554034	50.0	12.2	4.8	S	S	49
A93-554045	60.0	21.6	3.9	R	R	20
A93-555023	95.0	63.3	3.8	R	R	29
A93-555027	100.0	57.5	4.3	S	S	24
A93-555031	95.0	63.3	4.7	S	S	45
A93-652003	60.0	13.2	4.2	S	S	49
M90-174	85.0	66.6	5.9	S	S	13
M90-317	100.0	64.1	5.2	S	R	9
M90-600	100.0	56.9	6.0	S	S	13
M90-764	100.0	63.4	6.9	S	S	49
M90-1022	100.0	89.8	5.7	S	S	12
M90-1106	60.0	36.2	4.5	S	S	45
M90-1278	50.0	17.5	4.8	S	S	42
M90-1279	90.0	44.9	4.4	S	S	16
M90-1283	100.0	88.9	5.2	S	S	26
M90-1470	60.0	25.9	4.5	S	S	19
M90-1472	95.0	59.5	5.5	S	S	14
M90-1573	100.0	94.0	4.9	S	S	16
M90-1581	95.0	67.4	5.1	H	S	14
M90-1682	80.0	53.1	5.4	S	R	6
M90-1712	95.0	73.6	5.3	S	H	39
M90-1838	90.0	65.4	5.6	S	S	40
M90-1857	90.0	69.1	5.3	S	S	48
M90-2144	85.0	45.2	4.5	S	H	51
ORC 9301	80.0	45.8	4.3	R	S	23
ORC 9304	90.0	54.0	3.7	S	H	44
SL92-1179M	85.0	59.6	4.8	S	H	36
SL92-1194M	80.0	58.0	5.7	S	S	34
SL92-1201M	100.0	79.0	5.6	S	S	19
SL92-1207M	95.0	84.5	5.4	S	S	13
SL92-1328M	100.0	75.6	5.5	S	S	36
SL92-1362M	100.0	67.4	6.0	S	S	56
SL92-1412M	100.0	69.3	5.6	S	S	23
SL92-2844M	85.0	75.4	6.7	S	S	18

PRELIMINARY TEST I, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 6 Date	Lodging 7 Score	Plant Height 7 In.	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 2 %	 Oil 2 %
Archer (BSR)	49.3	29	4.2	2.1	38	2.1	17.2	40.4	19.9
Lambert (0)	46.2	37	-9.3	1.8	29	1.9	17.1	41.8	20.3
Parker (I)	53.4	12	09/19	2.8	37	1.6	18.4	40.7	19.9
Sturdy (II)	56.8	5	6.5	2.1	36	1.9	18.9	41.0	19.8
A93-552034	58.4	1	5.0	1.8	37	2.0	16.7	39.5	20.4
A93-554034	54.2	8	3.7	1.9	39	1.9	19.2	40.9	19.1
A93-554045	58.3	2	5.0	1.7	38	1.9	16.4	37.8	19.9
A93-555023	54.8	7	4.3	2.3	37	2.1	19.7	39.5	19.3
A93-555027	58.1	4	8.2	2.0	38	2.5	21.5	39.8	19.9
A93-555031	58.2	3	6.5	1.7	34	2.0	18.2	40.8	20.0
A93-652003	56.3	6	6.2	1.9	36	2.0	15.8	41.2	19.0
M90-174	48.5	31	-5.8	1.8	32	2.0	17.8	40.4	19.5
M90-317	50.7	22	-1.7	2.7	37	1.7	14.8	40.3	20.4
M90-600	49.0	30	-4.8	2.0	33	1.6	14.4	40.6	19.7
M90-764	47.6	34	-5.5	2.1	36	1.6	18.5	42.4	19.8
M90-1022	53.9	9	-2.5	2.3	35	1.7	18.7	40.2	20.0
M90-1106	49.8	28	0.8	1.8	35	1.8	16.9	41.8	19.7
M90-1278	51.0	19	-0.3	1.6	36	1.9	17.6	42.3	19.1
M90-1279	53.6	11	-3.5	1.9	39	2.3	20.5	41.5	19.4
M90-1283	50.1	25	-4.5	2.2	35	1.8	18.3	39.4	20.3
M90-1470	47.7	33	-5.7	1.7	32	1.6	19.3	43.4	19.5
M90-1472	50.0	26	-5.2	2.4	34	1.6	16.8	40.9	20.1
M90-1573	46.3	36	-7.3	2.2	32	1.6	19.0	43.2	19.5
M90-1581	43.2	39	-6.2	2.2	34	1.7	16.9	44.3	19.1
M90-1682	48.5	31	-3.8	2.1	29	1.6	15.2	40.3	20.0
M90-1712	47.3	35	-7.5	2.4	32	1.9	16.8	41.9	19.7
M90-1838	51.6	16	-2.7	1.9	36	1.8	17.2	40.8	20.1
M90-1857	51.8	15	1.7	1.7	36	1.8	18.0	41.4	19.4
M90-2144	53.8	10	-3.2	2.1	40	1.4	19.8	44.0	19.5
ORC 9301	50.9	20	-4.7	2.0	35	1.7	18.7	39.4	20.5
ORC 9304	52.3	14	1.5	1.8	38	2.3	20.0	40.8	19.9
SL92-1179M	52.7	13	-1.0	2.0	35	1.6	21.2	41.8	19.4
SL92-1194M	51.2	17	2.3	2.2	36	2.1	19.1	40.0	20.3
SL92-1201M	50.2	24	-4.8	1.9	35	1.4	19.9	41.4	19.7
SL92-1207M	50.9	20	-0.3	2.2	34	1.5	17.5	42.1	19.9
SL92-1328M	50.0	26	-2.5	1.7	34	1.3	18.0	41.5	19.9
SL92-1362M	50.5	23	1.8	1.8	36	1.4	16.0	40.7	20.3
SL92-1412M	51.1	18	1.8	2.3	33	1.7	19.7	40.2	19.5
SL92-2844M	45.8	38	-5.2	1.8	35	1.6	18.3	40.0	20.0

128.7 Days After Planting

PRELIMINARY TEST I, 1994

YIELD (bu/a)

Strain	Mean 6 Tests	Kanawha IA	Pomeroy IA	Ingham* County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	49.3	53.0	48.9	52.2	50.0	47.6	45.2	51.0
Lambert (0)	46.2	57.4	49.5	37.2	38.8	38.3	37.1	56.1
Parker (I)	53.4	58.2	57.5	50.7	56.3	50.0	47.2	51.3
Sturdy (II)	56.8	59.3	58.3	43.1	66.0	48.5	52.6	56.0
A93-552034	58.4	63.6	64.5	21.3	64.3	56.2	50.8	51.1
A93-554034	54.2	57.2	53.3	40.7	58.4	47.5	50.5	58.2
A93-554045	58.3	57.9	64.4	53.7	62.3	54.8	57.8	52.6
A93-555023	54.8	61.7	55.2	42.2	63.8	44.5	50.8	53.1
A93-555027	58.1	59.8	58.3	29.9	66.7	50.2	54.4	59.4
A93-555031	58.2	62.8	67.1	38.6	64.8	49.7	52.0	52.8
A93-652003	56.3	59.4	61.3	57.7	61.8	57.2	50.2	48.1
M90-174	48.5	58.6	42.5	29.9	47.6	47.0	43.0	52.2
M90-317	50.7	54.4	50.2	33.5	53.5	51.2	46.6	48.0
M90-600	49.0	55.8	55.1	36.7	49.2	45.8	41.6	46.6
M90-764	47.6	50.1	50.6	41.9	45.5	51.2	39.2	48.9
M90-1022	53.9	57.9	56.3	39.1	61.0	47.7	47.7	52.6
M90-1106	49.8	60.1	51.0	55.2	52.9	42.5	45.3	47.1
M90-1278	51.0	55.5	53.8	35.3	52.6	49.0	44.9	50.4
M90-1279	53.6	57.0	59.5	34.1	51.1	53.5	45.2	55.4
M90-1283	50.1	55.9	51.4	22.2	52.9	49.1	44.5	46.7
M90-1470	47.7	55.1	50.2	47.2	48.9	42.6	39.9	49.5
M90-1472	50.0	54.4	54.4	34.3	51.7	47.3	39.9	52.0
M90-1573	46.3	51.2	48.3	41.5	49.3	39.4	39.9	49.7
M90-1581	43.2	48.9	44.1	26.9	45.8	38.0	38.8	43.3
M90-1682	48.5	56.1	49.2	27.1	54.0	41.1	41.9	48.6
M90-1712	47.3	48.1	50.1	30.3	51.0	39.9	46.4	48.5
M90-1838	51.6	56.2	53.8	41.5	53.7	48.6	47.6	49.5
M90-1857	51.8	57.3	53.8	31.4	57.5	46.5	45.5	50.4
M90-2144	53.8	58.5	56.3	41.1	53.2	50.6	53.5	50.5
ORC 9301	50.9	55.5	55.3	48.1	47.2	45.2	43.8	58.3
ORC 9304	52.3	54.6	55.5	43.5	54.1	50.3	45.4	54.0
SL92-1179M	52.7	60.1	54.2	36.7	60.0	48.1	47.7	46.3
SL92-1194M	51.2	59.3	55.7	29.5	41.5	47.2	47.7	55.7
SL92-1201M	50.2	55.4	55.3	40.7	49.3	46.9	44.2	50.0
SL92-1207M	50.9	57.1	52.5	38.6	54.5	47.3	45.6	48.3
SL92-1328M	50.0	56.5	54.4	39.4	52.7	45.3	42.3	48.9
SL92-1362M	50.5	62.8	52.1	43.7	48.2	44.8	40.4	54.8
SL92-1412M	51.1	54.2	62.0	35.0	55.4	43.2	48.7	43.3
SL92-2844M	45.8	53.7	46.3	39.0	47.1	43.3	39.8	44.6
C.V. (%)		4.4	6.1	23.2	9.1	10.6	7.3	7.0
L.S.D. (5%)		5.0	6.6	18.3	9.9	10.1	5.6	7.2
Row Sp. (In.)		27	27	30	30	10	30	30
Rows/Plot		4	4	4	2	4	4	4
Reps		2	2	2	2	2	2	2

* Data not included in the mean.

PRELIMINARY TEST I, 1994

YIELD RANK

Strain	Yield Rank	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	29	35	35	4	27	18	23	19
Lambert (0)	37	16	33	23	39	38	39	4
Parker (I)	12	13	9	5	12	10	15	17
Sturdy (II)	5	9	7	10	2	15	4	5
A93-552034	1	1	2	39	4	2	7	18
A93-554034	8	18	24	16	10	19	8	3
A93-554045	2	14	3	3	6	3	1	13
A93-555023	7	4	16	11	5	30	6	11
A93-555027	4	7	7	34	1	9	2	1
A93-555031	3	2	1	21	3	11	5	12
A93-652003	6	8	5	1	7	1	9	32
M90-174	31	11	39	33	33	23	28	15
M90-317	22	31	30	30	30	5	16	33
M90-600	30	25	17	24	18	26	31	37
M90-764	34	37	29	12	37	5	37	27
M90-1022	9	14	10	19	8	17	11	13
M90-1106	28	5	28	2	20	34	21	34
M90-1278	19	26	21	26	23	13	24	21
M90-1279	11	20	6	29	25	4	22	7
M90-1283	25	24	27	38	20	12	25	35
M90-1470	33	29	30	7	31	33	34	25
M90-1472	26	31	18	28	24	20	33	16
M90-1573	36	36	36	13	28	37	35	24
M90-1581	39	38	38	37	36	39	38	39
M90-1682	31	23	34	36	16	35	30	29
M90-1712	35	39	32	32	26	36	17	30
M90-1838	16	22	21	14	17	14	14	25
M90-1857	15	17	21	31	11	25	19	21
M90-2144	10	12	10	15	19	7	3	20
ORC 9301	20	26	14	6	34	28	27	2
ORC 9304	14	30	13	9	15	8	20	9
SL92-1179M	13	5	20	25	9	16	11	36
SL92-1194M	17	9	12	35	38	22	13	6
SL92-1201M	24	28	14	17	28	24	26	23
SL92-1207M	20	19	25	22	14	20	18	31
SL92-1328M	26	21	18	18	22	27	29	27
SL92-1362M	23	2	26	8	32	29	32	8
SL92-1412M	18	33	4	27	13	32	10	10
SL92-2844M	38	34	37	20	35	31	36	38

PRELIMINARY TEST I, 1994

MATURITY (date)

Strain	Mean 6 Tests	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	4.2	4		7	4	5	1	4
Lambert (0)	-9.3	-8		-6	-13	-8	-14	-7
Parker (I)	09/19	09/10		09/12	09/23	09/21	09/24	09/24
Sturdy (II)	6.5	6		9	7	4	2	11
A93-552034	5.0	6		1	6	4	3	10
A93-554034	3.7	6		5	5	0	-1	7
A93-554045	5.0	4		6	5	5	1	9
A93-555023	4.3	4		8	5	1	-1	9
A93-555027	8.2	10		8	9	8	4	10
A93-555031	6.5	6		6	7	9	2	9
A93-652003	6.2	6		7	5	5	1	13
M90-174	-5.8	-6		-7	-7	-6	-6	-3
M90-317	-1.7	0		-1	-6	-4	-4	5
M90-600	-4.8	-4		-5	-9	-5	-2	-4
M90-764	-5.5	-7		-2	-9	-4	-6	-5
M90-1022	-2.5	-2		-2	-6	-2	-2	-1
M90-1106	0.8	0		2	2	2	-1	0
M90-1278	-0.3	0		2	0	0	-7	3
M90-1279	-3.5	-2		-3	-6	-3	-7	0
M90-1283	-4.5	-3		-3	-2	-5	-9	-5
M90-1470	-5.7	-5		-1	-7	-5	-11	-5
M90-1472	-5.2	-4		-3	-7	-3	-9	-5
M90-1573	-7.3	-8		-4	-9	-5	-12	-6
M90-1581	-6.2	-6		-3	-9	-4	-9	-6
M90-1682	-3.8	-2		-2	-7	-2	-9	-1
M90-1712	-7.5	-8		-4	-9	-6	-13	-5
M90-1838	-2.7	-2		-2	-7	-4	-7	6
M90-1857	1.7	2		-2	5	-1	0	6
M90-2144	-3.2	-1		-2	-4	-3	-6	-3
ORC 9301	-4.7	-2		-1	-7	-3	-12	-3
ORC 9304	1.5	2		5	2	0	-2	2
SL92-1179M	-1.0	-1		-2	0	-1	-4	2
SL92-1194M	2.3	2		1	4	2	-1	6
SL92-1201M	-4.8	-4		-3	-7	-4	-9	-2
SL92-1207M	-0.3	2		-4	-5	-3	-6	14
SL92-1328M	-2.5	-2		-1	-6	-1	-6	1
SL92-1362M	1.8	4		0	2	1	-1	5
SL92-1412M	1.8	0		8	2	-1	0	2
SL92-2844M	-5.2	-5		-8	-7	-3	-9	1
Date Planted	05/13	05/09		05/16	05/13	05/10	05/13	05/19
Days to Mature	128.7	124		119	133	134	134	128

PRELIMINARY TEST I, 1994

LODGING (score)

Strain	Mean 7 Tests	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	2.1	2.0	1.9	2.5	1.5	2.0	1.0	3.8
Lambert (0)	1.8	1.6	1.7	1.5	1.0	2.0	1.0	4.0
Parker (I)	2.8	3.0	2.4	3.5	3.0	2.5	1.0	4.0
Sturdy (II)	2.1	2.0	2.0	2.5	2.0	2.0	1.0	3.5
A93-552034	1.8	2.0	2.0	1.0	1.5	2.0	1.0	3.3
A93-554034	1.9	1.7	2.1	2.0	1.5	2.0	1.0	3.3
A93-554045	1.7	1.5	1.9	2.0	1.0	2.0	1.0	2.5
A93-555023	2.3	2.0	2.1	2.5	2.0	2.0	2.0	3.5
A93-555027	2.0	1.8	1.8	2.5	1.5	2.0	1.0	3.3
A93-555031	1.7	1.7	1.7	1.0	1.5	2.0	1.0	3.3
A93-652003	1.9	1.9	2.2	1.5	2.0	2.0	1.0	2.5
M90-174	1.8	1.7	1.7	1.5	1.0	2.0	1.0	4.0
M90-317	2.7	2.0	2.2	3.5	2.0	3.0	2.0	4.0
M90-600	2.0	1.6	1.6	1.5	1.0	3.0	1.0	4.0
M90-764	2.1	1.9	1.8	3.0	1.0	2.0	1.0	4.0
M90-1022	2.3	1.7	1.9	3.0	2.0	2.0	2.0	3.8
M90-1106	1.8	1.6	1.6	1.5	1.0	2.0	1.0	3.8
M90-1278	1.6	1.6	1.6	1.0	1.0	2.0	1.0	3.0
M90-1279	1.9	2.1	2.0	2.0	1.0	2.0	1.0	3.3
M90-1283	2.2	1.8	1.9	1.5	2.0	2.5	2.0	4.0
M90-1470	1.7	1.7	1.5	1.5	1.0	2.0	1.0	3.3
M90-1472	2.4	1.8	2.3	2.0	2.5	2.0	2.0	4.0
M90-1573	2.2	1.6	1.7	4.0	1.0	2.0	1.0	4.0
M90-1581	2.2	1.8	1.9	2.5	2.5	2.0	1.0	4.0
M90-1682	2.1	1.6	1.8	2.0	1.5	2.0	2.0	4.0
M90-1712	2.4	1.8	2.1	2.0	3.0	2.0	2.0	4.0
M90-1838	1.9	1.9	1.9	1.0	1.5	2.0	1.0	3.8
M90-1857	1.7	1.7	1.7	1.0	1.5	2.0	1.0	3.3
M90-2144	2.1	1.8	1.8	3.0	1.5	2.0	1.0	3.5
ORC 9301	2.0	1.7	1.6	3.0	1.0	2.0	1.0	3.5
ORC 9304	1.8	1.5	1.9	2.0	1.5	2.0	1.0	2.8
SL92-1179M	2.0	2.0	1.8	1.5	1.5	2.0	2.0	3.5
SL92-1194M	2.2	2.0	1.7	2.0	2.0	2.0	2.0	3.5
SL92-1201M	1.9	1.8	1.3	1.0	1.0	2.0	2.0	4.0
SL92-1207M	2.2	2.1	2.3	1.5	2.0	3.0	1.0	3.5
SL92-1328M	1.7	1.6	1.6	1.5	1.0	2.0	1.0	3.0
SL92-1362M	1.8	1.9	1.9	1.5	1.0	2.0	1.0	3.5
SL92-1412M	2.3	1.5	1.8	2.5	2.0	2.5	2.0	3.5
SL92-2844M	1.8	1.6	1.5	2.0	1.0	2.0	1.0	3.8

PRELIMINARY TEST I, 1994

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	38	42	40	41	39	38	32	37
Lambert (0)	29	30	34	23	29	27	20	40
Parker (I)	37	42	38	39	38	37	30	33
Sturdy (II)	36	38	40	34	36	37	29	38
A93-552034	37	42	38	27	39	41	32	41
A93-554034	39	42	41	33	41	38	36	45
A93-554045	38	40	38	36	39	37	36	38
A93-555023	37	41	38	34	40	35	35	38
A93-555027	38	42	38	29	39	40	32	43
A93-555031	34	38	36	27	36	35	28	41
A93-652003	36	40	36	31	37	33	31	41
M90-174	32	33	31	30	32	32	29	37
M90-317	37	44	35	30	37	38	31	41
M90-600	33	37	34	24	36	36	30	37
M90-764	36	36	38	36	32	40	32	40
M90-1022	35	37	36	31	37	34	32	38
M90-1106	35	38	34	34	37	34	29	39
M90-1278	36	38	38	29	40	37	29	40
M90-1279	39	42	44	33	41	40	33	42
M90-1283	35	38	34	27	39	36	33	36
M90-1470	32	36	33	32	32	29	25	38
M90-1472	34	36	38	29	36	33	26	38
M90-1573	32	32	32	34	31	30	26	36
M90-1581	34	34	33	32	36	33	32	41
M90-1682	29	28	28	30	30	23	29	33
M90-1712	32	34	32	32	36	29	30	34
M90-1838	36	38	36	29	39	38	34	38
M90-1857	36	41	35	28	38	36	32	43
M90-2144	40	42	40	36	43	41	35	45
ORC 9301	35	36	36	37	35	33	29	38
ORC 9304	38	40	38	33	39	38	33	44
SL92-1179M	35	39	34	32	36	31	31	39
SL92-1194M	36	40	36	31	36	34	33	39
SL92-1201M	35	38	32	35	38	37	31	35
SL92-1207M	34	40	34	27	32	33	30	39
SL92-1328M	34	38	34	32	33	33	28	38
SL92-1362M	36	41	38	38	35	33	24	41
SL92-1412M	33	34	36	29	34	31	29	36
SL92-2844M	35	37	35	34	34	35	29	39

PRELIMINARY TEST I, 1994

SEED QUALITY (score)

Strain	Mean 7 Tests	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	2.1	1.5	2.5	2.0	3.0	1.5	2.0	2.5
Lambert (0)	1.9	2.0	2.0	1.5	2.0	1.5	3.0	1.3
Parker (I)	1.6	1.5	1.5	1.5	1.5	1.5	2.0	1.8
Sturdy (II)	1.9	1.5	1.5	1.5	2.0	1.0	2.0	3.5
A93-552034	2.0	1.5	2.0	1.0	2.5	1.5	2.0	3.5
A93-554034	1.9	2.0	2.0	1.5	2.5	1.0	2.0	2.0
A93-554045	1.9	1.5	1.5	1.5	2.5	2.0	2.0	2.0
A93-555023	2.1	2.0	2.0	1.0	2.5	2.0	2.0	3.5
A93-555027	2.5	2.5	2.5	1.5	3.5	2.0	2.0	3.3
A93-555031	2.0	1.5	2.0	1.0	2.5	1.5	2.0	3.5
A93-652003	2.0	1.5	1.5	1.0	2.0	2.5	2.0	3.3
M90-174	2.0	1.0	1.5	1.5	2.0	2.0	3.0	3.3
M90-317	1.7	1.0	1.5	1.5	1.5	1.5	2.0	3.0
M90-600	1.6	1.0	1.5	1.0	2.0	1.5	2.0	2.0
M90-764	1.6	1.0	2.0	1.0	2.0	1.5	2.0	1.8
M90-1022	1.7	1.5	1.5	1.5	1.5	1.5	2.0	2.3
M90-1106	1.8	1.0	2.0	1.5	1.5	2.0	2.0	2.3
M90-1278	1.9	1.5	2.0	1.5	2.5	1.5	2.0	2.3
M90-1279	2.3	1.5	2.5	2.0	2.5	2.5	2.0	2.8
M90-1283	1.8	1.0	1.5	1.5	2.0	1.5	2.0	2.8
M90-1470	1.6	1.5	1.5	1.0	1.5	1.5	2.0	2.0
M90-1472	1.6	1.5	1.5	1.0	1.5	2.0	2.0	2.0
M90-1573	1.6	1.0	2.0	1.5	1.5	1.5	2.0	2.0
M90-1581	1.7	1.5	2.0	1.0	2.0	1.5	2.0	2.0
M90-1682	1.6	1.0	1.5	1.0	2.0	2.0	1.0	2.8
M90-1712	1.9	1.0	2.0	1.5	1.5	2.0	3.0	2.0
M90-1838	1.8	1.5	1.5	1.5	1.5	1.5	2.0	3.0
M90-1857	1.8	1.5	1.5	1.0	1.5	1.5	3.0	2.3
M90-2144	1.4	1.0	1.5	1.0	1.5	1.5	1.0	2.0
ORC 9301	1.7	1.5	1.5	1.5	2.0	1.5	2.0	1.8
ORC 9304	2.3	1.5	2.0	1.5	3.0	2.0	3.0	3.0
SL92-1179M	1.6	1.0	1.5	1.0	2.5	1.5	2.0	2.0
SL92-1194M	2.1	1.5	1.5	1.0	2.0	2.5	3.0	3.3
SL92-1201M	1.4	1.0	1.0	1.0	1.5	1.5	2.0	1.8
SL92-1207M	1.5	1.0	1.0	1.0	1.5	1.5	2.0	2.8
SL92-1328M	1.3	1.0	1.0	1.0	1.5	2.0	1.0	1.8
SL92-1362M	1.4	1.5	1.5	1.0	1.5	1.5	1.0	1.5
SL92-1412M	1.7	1.0	2.0	1.0	2.0	1.5	2.0	2.5
SL92-2844M	1.6	1.0	1.5	1.0	2.0	1.5	2.0	2.5

PRELIMINARY TEST I, 1994

SEED SIZE (g/100)

Strain	Mean 7 Tests	Kanawha IA	Pomeroy IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
Archer (BSR)	17.2	16.7	16.9	18.6	17.9	14.9	18.0	17.4
Lambert (0)	17.1	17.8	16.6	17.2	16.4	16.2	17.0	18.5
Parker (I)	18.4	18.0	17.8	19.3	19.1	18.6	18.0	18.3
Sturdy (II)	18.9	18.4	19.0	19.7	18.9	17.9	18.0	20.6
A93-552034	16.7	16.5	17.0	16.4	17.2	16.4	15.0	18.3
A93-554034	19.2	18.2	20.0	20.9	20.0	16.8	18.0	20.7
A93-554045	16.4	15.4	16.6	18.8	16.3	14.6	15.0	18.0
A93-555023	19.7	20.1	20.6	20.3	20.0	15.6	20.0	21.4
A93-555027	21.5	21.4	20.9	21.2	22.5	19.5	22.0	22.9
A93-555031	18.2	19.0	18.3	18.6	19.2	16.2	16.0	20.0
A93-652003	15.8	15.5	16.4	16.0	15.9	14.6	16.0	16.2
M90-174	17.8	17.6	17.0	17.5	17.9	16.4	19.0	19.2
M90-317	14.8	14.5	15.0	13.6	14.8	14.1	15.0	16.9
M90-600	14.4	14.4	14.1	14.9	14.5	13.2	14.0	16.0
M90-764	18.5	18.2	18.0	19.0	18.1	18.4	17.0	20.6
M90-1022	18.7	18.0	18.4	17.2	19.1	18.0	19.0	21.2
M90-1106	16.9	16.6	16.6	18.0	17.5	16.2	16.0	17.2
M90-1278	17.6	18.2	17.8	16.5	17.0	17.6	17.0	19.2
M90-1279	20.5	21.0	20.9	20.6	20.5	18.8	20.0	21.8
M90-1283	18.3	17.8	18.0	18.4	18.1	17.6	19.0	19.3
M90-1470	19.3	18.2	19.1	21.7	19.7	18.4	18.0	20.0
M90-1472	16.8	16.2	17.2	17.5	17.2	16.3	15.0	18.2
M90-1573	19.0	19.4	19.2	18.9	18.7	18.1	19.0	19.5
M90-1581	16.9	16.9	16.3	16.2	18.0	18.8	15.0	17.4
M90-1682	15.2	15.6	14.4	15.5	15.8	14.8	14.0	16.1
M90-1712	16.8	17.0	16.6	18.4	17.4	13.3	16.0	18.6
M90-1838	17.2	18.3	18.1	14.4	17.8	16.4	17.0	18.6
M90-1857	18.0	17.6	18.4	18.2	18.1	16.8	18.0	18.8
M90-2144	19.8	20.4	20.1	20.2	19.1	18.3	20.0	20.3
ORC 9301	18.7	17.6	18.0	19.3	18.0	17.9	20.0	20.4
ORC 9304	20.0	19.5	19.9	20.5	20.3	19.0	20.0	20.8
SL92-1179M	21.2	22.3	21.4	19.0	21.4	19.2	22.0	23.4
SL92-1194M	19.1	19.0	18.4	21.1	19.3	17.3	19.0	19.8
SL92-1201M	19.9	20.8	19.4	20.1	20.1	19.9	19.0	19.9
SL92-1207M	17.5	18.6	17.2	16.9	16.9	16.1	18.0	18.6
SL92-1328M	18.0	18.0	18.0	17.6	17.6	16.1	18.0	20.4
SL92-1362M	16.0	16.0	16.0	17.1	16.1	14.8	15.0	16.7
SL92-1412M	19.7	18.8	20.0	19.3	19.6	17.6	20.0	22.8
SL92-2844M	18.3	17.4	16.7	17.9	19.2	17.7	19.0	20.4

PRELIMINARY TEST I, 1994

PROTEIN (%)

Strain	Mean 2 Tests	Kanawha IA	Brookings SD
Archer (BSR)	40.4	40.1	40.6
Lambert (0)	41.8	41.7	41.9
Parker (I)	40.7	40.7	40.6
Sturdy (II)	41.0	40.8	41.2
A93-552034	39.5	39.6	39.4
A93-554034	40.9	40.4	41.4
A93-554045	37.8	38.6	36.9
A93-555023	39.5	40.0	39.0
A93-555027	39.8	40.4	39.2
A93-555031	40.8	40.7	40.9
A93-652003	41.2	41.2	41.1
M90-174	40.4	40.2	40.6
M90-317	40.3	40.4	40.1
M90-600	40.6	40.6	40.5
M90-764	42.4	42.9	41.8
M90-1022	40.2	40.0	40.4
M90-1106	41.8	41.2	42.4
M90-1278	42.3	41.6	42.9
M90-1279	41.5	41.0	41.9
M90-1283	39.4	38.9	39.9
M90-1470	43.4	42.4	44.4
M90-1472	40.9	40.7	41.1
M90-1573	43.2	42.9	43.4
M90-1581	44.3	44.6	44.0
M90-1682	40.3	40.6	39.9
M90-1712	41.9	42.3	41.5
M90-1838	40.8	40.8	40.7
M90-1857	41.4	41.2	41.5
M90-2144	44.0	43.7	44.3
ORC 9301	39.4	39.7	39.1
ORC 9304	40.8	40.9	40.6
SL92-1179M	41.8	41.7	41.8
SL92-1194M	40.0	40.1	39.9
SL92-1201M	41.4	42.4	40.3
SL92-1207M	42.1	42.3	41.8
SL92-1328M	41.5	42.4	40.5
SL92-1362M	40.7	39.8	41.6
SL92-1412M	40.2	41.0	39.4
SL92-2844M	40.0	39.5	40.5

PRELIMINARY TEST I, 1994

OIL (%)

Strain	Mean 2 Tests	Kanawha IA	Brookings SD
Archer (BSR)	19.9	20.0	19.8
Lambert (0)	20.3	20.4	20.2
Parker (I)	19.9	20.0	19.7
Sturdy (II)	19.8	19.9	19.6
A93-552034	20.4	20.4	20.3
A93-554034	19.1	19.5	18.7
A93-554045	19.9	19.8	20.0
A93-555023	19.3	19.3	19.2
A93-555027	19.9	20.1	19.7
A93-555031	20.0	20.2	19.8
A93-652003	19.0	18.7	19.3
M90-174	19.5	19.0	20.0
M90-317	20.4	20.6	20.2
M90-600	19.7	19.8	19.5
M90-764	19.8	19.9	19.7
M90-1022	20.0	20.0	20.0
M90-1106	19.7	20.0	19.3
M90-1278	19.1	19.3	18.9
M90-1279	19.4	19.6	19.2
M90-1283	20.3	20.4	20.2
M90-1470	19.5	19.9	19.0
M90-1472	20.1	19.9	20.2
M90-1573	19.5	19.7	19.2
M90-1581	19.1	19.0	19.1
M90-1682	20.0	20.1	19.8
M90-1712	19.7	19.8	19.6
M90-1838	20.1	20.0	20.1
M90-1857	19.4	19.4	19.3
M90-2144	19.5	19.8	19.1
ORC 9301	20.5	20.5	20.4
ORC 9304	19.9	19.9	19.9
SL92-1179M	19.4	19.6	19.2
SL92-1194M	20.3	19.8	20.7
SL92-1201M	19.7	19.6	19.8
SL92-1207M	19.9	19.8	19.9
SL92-1328M	19.9	20.1	19.7
SL92-1362M	20.3	20.3	20.2
SL92-1412M	19.5	19.1	19.8
SL92-2844M	20.0	20.3	19.7

UNIFORM TEST II, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	5	F5	
IA2007 BC	IA2007 x Archer	-	BC3 F2	Rps1-k
IA2008	BSR 101 x A80-344003	1	F5	BSR resis.
IA2008 BC	IA2008 x Archer	-	BC3 F2	Rps1-k
Kenwood 94 (II)	Kenwood^4 x Elgin 87	2	BC4 F4	Rps1-k
Sturdy (E)	M70-127 x Century	8	F5	
A91-607023	Dairyland DSR 304 x Kenwood	UTI	F5	
A91-607024	Asgrow A3205 x Diaryland DSR 304	1	F5	
A91-607052	Elgin 87 x Marcus	UTI	F5	
A92-627030	Kenwood x Asgrow A3205	PTIIA	F5	
HF91-055	C1678 x Conrad	PTIIB	F5	
HF91-070	GR8836 x Elgin 87	PTIIB	F5	
HF91-078	GR8836 x Elgin 87	PTIIB	F5	
LN90-4366	LN86-4668 x Resnik	PTIIB	F5	Rps1-k
SL91-1252N	PI 423.708B x Pioneer 0877	PTIIB	F5	
SL91-1657N	Pioneer 9061 x PI 238.924	PTIIB	F5	
U91-2519	A86-204022 x HC84-553-1	1	F4	
U91-2527	Sturdy x A86-204022	1	F4	
U91-2722	Northrup King S23-03 x A86-204022	1	F4	
U92-2212	UX106 x Northrup King S23-03	PTIIA	F5	
U92-2426	UX110 x Northrup King S23-03	PTIIA	F5	

* Number of years in test or name of 1993 test.

UNIFORM TEST II, 1994

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Manhattan
IA2007 (L)	PTBIYBrI	4.4	4.5	1	1
IA2007 BC	PTTIYBrI	4.0	4.5	1	1
IA2008	WGTSYBfI	3.6	3.0	1	2
IA2008 BC	WGTDYBlI	3.4	3.0	1	2
Kenwood 94 (II)	PTBIYBlI	4.5	5.0	2	1
Sturdy (E)	PGBDYIbI	2.9	3.5	5	1
A91-607023	PTBIYBlI	4.6	5.0	2	1
A91-607024	PGBSYBli	4.6	5.0	1	1
A91-607052	WTB+TSYBlI	3.6	5.0	4	1
A92-627030	PTBDYBfI	4.8	5.0	1	1
HF91-055	PTTSYBlI	4.2	5.0	1	1
HF91-070	PTBIYBlI	3.9	5.0	1	1
HF91-078	PTBIYBlI	4.2	5.0	1	1
LN90-4366	WTTDYBlI	3.5	4.5	4	1
SL91-1252N	PTBDYBlI	4.1	5.0	4	1
SL91-1657N	PTBDYBlI	4.2	5.0	1	1
U91-2519	PTBSYBlI	3.6	4.0	1	1
U91-2527	PGBIYIbI	3.2	3.0	5	1
U91-2722	PGBSYIbI	3.2	3.5	5	2
U92-2212	PTBIYBlI	3.2	4.0	5	3
U92-2426	PGBDYBfI	2.8	3.0	5	1

DISEASE DATA

Strain	BSR-Boone Plant n %	BSR-Boone Stem n %	PR Custar Root Rot Race 25	PR Ames Race 4	PR Laf. Race 7	PS Lafayette a %
IA2007 (L)	80.0	39.2	3.7	S	R	6
IA2007 BC	75.0	35.1	3.6	R	R	5
IA2008	35.0	7.1	3.6	R	S	33
IA2008 BC	50.0	10.5	3.4	R	R	26
Kenwood 94 (II)	95.0	40.9	3.8	R	R	31
Sturdy (E)	95.0	58.0	4.7	S	S	25
A91-607023	80.0	38.6	5.3	S	S	20
A91-607024	67.5	27.3	4.3	S	S	16
A91-607052	95.0	65.7	4.2	R	R	17
A92-627030	90.0	33.6	4.3	S	S	17
HF91-055	95.0	53.0	3.9	S	S	14
HF91-070	70.0	26.2	4.0	R	R	7
HF91-078	90.0	41.2	3.7	R	R	6
LN90-4366	95.0	30.0	3.4	R	R	2
SL91-1252N	85.0	46.8	4.2	S	S	12
SL91-1657N	70.0	28.1	4.8	S	S	32
U91-2519	90.0	28.2	3.6	S	S	15
U91-2527	90.0	64.2	4.5	S	S	27
U91-2722	85.0	51.4	4.0	S	S	12
U92-2212	70.0	34.3	3.9	R	R	15
U92-2426	95.0	58.9	3.7	S	R	42

UNIFORM TEST II, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 21 bu/a	Rank 21 No.	Maturity 19 Date	Lodging 21 Score	Plant Height 22 In.	Seed Quality 21 Score	Seed Size 20 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	58.3	7	4.9	1.8	37	1.6	18.9	40.4	20.5
IA2007 BC	59.2	3	4.3	1.8	37	1.8	19.0	40.0	20.9
IA2008	57.4	14	1.8	2.2	39	1.8	15.7	40.6	20.3
IA2008 BC	57.2	16	2.9	2.4	39	1.7	15.8	40.1	20.6
Kenwood 94 (II)	57.4	14	09/16	2.2	35	1.9	16.7	39.5	20.6
Sturdy (E)	55.5	20	-0.7	2.0	35	1.9	18.9	40.8	20.7
A91-607023	58.1	10	-0.6	2.1	35	1.7	17.2	40.7	20.5
A91-607024	62.0	1	5.3	1.8	39	1.7	16.2	41.0	20.1
A91-607052	59.2	3	-0.6	1.9	32	1.8	18.3	39.3	21.1
A92-627030	59.8	2	2.8	1.7	35	1.8	17.4	40.7	20.7
HF91-055	57.2	16	0.6	2.1	37	1.8	18.1	40.2	20.7
HF91-070	58.2	9	4.6	2.1	36	1.6	17.4	40.6	20.6
HF91-078	59.2	3	3.9	2.2	35	1.8	17.9	40.2	20.7
LN90-4366	56.8	18	5.0	1.5	35	1.7	17.0	40.8	20.2
SL91-1252N	55.5	20	1.3	2.1	36	1.9	16.4	39.8	20.8
SL91-1657N	58.3	7	0.1	2.1	36	1.9	16.6	39.9	20.8
U91-2519	59.0	6	4.5	1.8	36	1.6	18.4	39.9	20.7
U91-2527	57.7	12	3.3	1.9	37	1.8	18.2	40.4	20.6
U91-2722	56.7	19	3.0	2.2	38	1.7	16.1	40.9	20.4
U92-2212	57.7	12	-0.4	1.6	34	1.9	19.0	41.4	20.6
U92-2426	58.0	11	2.1	1.8	35	1.8	18.0	41.3	20.4

125.9 Days After Planting

1993-1994 2-YEAR MEAN

No. of Tests Strain	Yield 42 bu/a	Rank 42 No.	Maturity 37 Date	Lodging 43 Score	Plant Height 44 In.	Seed Quality 43 Score	Seed Size 41 g/100	Composition Protein 9 %	 Oil 9 %
IA2007 (L)	54.2	5	4.0	1.6	34	1.6	18.1	40.0	21.1
IA2008 (BSR)	52.3	4	0.4	2.0	36	1.6	14.9	39.8	20.8
Kenwood 94	54.4	3	09/20.2	1.9	34	1.7	15.9	39.8	21.0
Sturdy (I)	51.6	8	-1.2	1.8	33	1.8	18.4	40.4	21.1
A91-607024	56.5	1	4.6	1.7	37	1.6	15.3	40.7	20.5
U91-2519	54.7	2	4.1	1.7	34	1.5	17.4	40.1	21.2
U91-2527	54.4	3	2.2	1.7	34	1.7	17.4	40.2	21.2
U91-2722	53.4	6	2.2	2.0	36	1.6	15.2	41.2	20.6

126.3 Days After Planting

UNIFORM TEST II, 1994

YIELD (bu/a)

Strain	Mean 21 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	58.3	65.8	60.0	51.1	73.8	63.3	56.3
IA2007 BC	59.2	65.3	59.6	59.5	76.8	63.5	47.7
IA2008	57.4	63.4	58.4	51.9	68.6	64.3	48.8
IA2008 BC	57.2	64.7	59.2	53.3	72.3	63.5	43.3
Kenwood 94 (II)	57.4	66.0	60.5	58.8	69.5	63.8	41.8
Sturdy (E)	55.5	66.2	57.8	50.6	66.5	58.9	36.8
A91-607023	58.1	64.9	58.4	52.4	69.0	65.8	39.8
A91-607024	62.0	67.5	59.5	56.2	72.9	67.0	52.9
A91-607052	59.2	73.7	60.9	57.2	71.9	58.7	37.7
A92-627030	59.8	69.0	62.4	57.2	67.7	62.2	55.1
HF91-055	57.2	63.7	60.6	53.8	71.3	61.8	50.3
HF91-070	58.2	64.8	58.0	57.2	71.8	58.6	47.0
HF91-078	59.2	65.4	60.7	59.8	70.3	59.1	44.4
LN90-4366	56.8	66.3	61.2	51.5	66.0	66.9	45.3
SL91-1252N	55.5	67.5	56.6	55.3	72.6	61.3	56.5
SL91-1657N	58.3	66.3	58.9	53.4	74.0	63.4	42.0
U91-2519	59.0	64.0	57.7	56.1	71.8	60.8	54.9
U91-2527	57.7	70.9	60.1	52.8	71.9	64.0	42.9
U91-2722	56.7	65.5	53.5	57.2	71.4	66.4	44.6
U92-2212	57.7	69.6	60.9	54.7	69.8	60.0	47.5
U92-2426	58.0	68.8	59.7	57.2	71.3	67.4	40.7
C.V. (%)		4.2	7.6	6.8	5.9	6.9	17.4
L.S.D. (5%)		4.6	7.5	6.1	7.0	ns	ns
Row Sp. (In.)		27	27	27	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST II, 1994

YIELD (bu/a)

Strain	Bluff-* ton IN	Lafay- ette IN	Ingham County MI	Lenawee County MI	Lamber- ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart- ington NE
IA2007 (L)	23.2	56.2	54.2	60.4	66.6	63.5	53.2	55.9	53.6
IA2007 BC	21.6	61.5	57.9	60.5	56.9	59.9	57.1	56.8	53.2
IA2008	24.4	55.9	61.4	56.2	71.4	61.5	53.7	49.8	55.3
IA2008 BC	28.2	57.3	60.0	56.1	67.8	53.9	55.9	51.4	54.6
Kenwood 94 (II)	37.5	50.2	50.0	51.1	73.6	54.8	61.8	58.9	54.9
Sturdy (E)	17.2	46.6	57.6	54.5	68.4	56.7	58.1	55.1	50.7
A91-607023	36.9	59.1	57.3	57.4	67.8	52.7	59.0	57.9	58.5
A91-607024	40.0	65.5	66.0	56.9	64.7	65.8	61.4	61.9	57.9
A91-607052	28.5	47.6	56.4	54.2	78.2	57.8	63.9	58.0	55.4
A92-627030	35.5	52.7	59.3	61.2	72.0	61.0	56.7	63.3	60.3
HF91-055	30.2	55.0	59.4	54.9	64.5	57.0	51.4	53.8	54.8
HF91-070	40.0	57.1	56.2	59.4	66.3	58.2	55.0	59.6	51.9
HF91-078	38.0	54.4	55.9	63.0	69.5	53.7	59.0	56.9	55.6
LN90-4366	21.6	54.3	50.7	51.9	64.4	64.0	53.4	56.4	59.6
SL91-1252N	28.1	58.4	57.3	55.8	67.6	55.4	55.0	5.3	53.6
SL91-1657N	28.6	55.4	56.5	53.7	69.3	59.9	61.0	58.9	54.5
U91-2519	37.0	60.9	59.6	54.1	68.3	54.1	55.6	59.9	52.6
U91-2527	25.0	51.1	48.2	57.9	68.3	61.1	58.2	60.4	55.9
U91-2722	31.2	56.1	50.8	53.6	71.1	54.0	60.1	58.0	51.9
U92-2212	31.6	44.0	56.8	52.7	67.3	60.5	54.8	54.5	57.2
U92-2426	26.3	52.8	55.5	50.9	65.5	58.4	60.9	57.6	54.6
C.V. (%)	22.3	8.7	9.7	4.7	7.2	11.4	7.6	7.2	4.8
L.S.D. (5%)	11.2	7.9	11.4	5.4	7.9	ns	12.5	4.4	7.5
Row Sp. (In.)	26	24	30	30	10	10	30	30	30
Rows/Plot	4	4	4	4	10	10	4	4	4
Reps	3	3	2	2	3	3	2	2	3

* Data not included in the mean.

UNIFORM TEST II, 1994

YIELD (bu/a)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	49.1	64.0	45.1	68.7	53.0	55.2	55.2
IA2007 BC	46.7	63.1	57.9	68.2	59.8	57.4	54.2
IA2008	48.1	60.6	50.8	63.2	55.3	56.5	49.8
IA2008 BC	47.2	66.1	52.2	63.1	55.4	57.8	45.6
Kenwood 94 (II)	47.8	63.2	46.9	71.0	54.2	54.1	53.3
Sturdy (E)	45.2	59.1	44.0	65.1	53.1	58.6	56.0
A91-607023	47.0	60.9	52.0	71.0	57.5	59.5	53.1
A91-607024	54.4	65.7	57.4	65.9	63.3	60.8	57.4
A91-607052	49.5	64.5	55.2	72.2	55.5	59.2	54.7
A92-627030	48.1	60.7	48.9	67.8	56.2	59.4	55.0
HF91-055	50.3	58.7	49.3	67.7	53.6	57.8	51.0
HF91-070	51.0	61.2	49.2	66.5	57.5	63.2	52.8
HF91-078	53.9	60.3	60.4	67.7	58.1	59.3	56.9
LN90-4366	51.8	60.4	36.3	66.2	55.5	58.7	51.4
SL91-1252N	48.9	57.9	50.6	64.2	56.9	54.7	54.1
SL91-1657N	49.2	62.9	50.0	66.4	53.6	61.1	52.9
U91-2519	52.4	62.4	53.7	67.1	60.8	59.5	53.4
U91-2527	47.9	61.6	44.7	66.0	59.2	58.4	50.3
U91-2722	50.2	52.7	48.5	61.9	59.4	52.8	51.1
U92-2212	46.8	63.7	48.1	72.3	58.5	58.9	53.8
U92-2426	46.8	66.4	45.7	65.1	58.7	58.2	56.2
C.V. (%)	5.4	8.1	10.1	7.2	10.0	7.1	7.7
L.S.D. (5%)	4.3	8.2	8.4	7.9	7.8	5.6	3.4
Row Sp. (In.)	30	30	30	24	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	30	3	3	3

UNIFORM TEST II, 1994

YIELD RANK

Strain	Yield Rank	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	7	12	9	20	3	12	2
IA2007 BC	3	15	11	2	1	9	8
IA2008	14	21	15	18	18	6	7
IA2008 BC	16	18	13	15	6	9	14
Kenwood 94 (II)	14	11	7	3	16	8	17
Sturdy (E)	20	10	18	21	20	19	21
A91-607023	10	16	15	17	17	5	19
A91-607024	1	6	12	9	4	2	5
A91-607052	3	1	3	4	7	20	20
A92-627030	2	4	1	4	19	13	3
HF91-055	16	20	6	13	12	14	6
HF91-070	9	17	17	4	9	21	10
HF91-078	3	14	5	1	14	18	13
LN90-4366	18	8	2	19	21	3	11
SL91-1252N	20	6	20	11	5	15	1
SL91-1657N	7	8	14	14	2	11	16
U91-2519	6	19	19	10	9	16	4
U91-2527	12	2	8	16	7	7	15
U91-2722	19	13	21	4	11	4	12
U92-2212	12	3	3	12	15	17	9
U92-2426	11	5	10	4	12	1	18

YIELD RANK

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	18	8	17	4	15	3	20	15	15
IA2007 BC	19	2	7	3	21	8	11	13	17
IA2008	17	10	2	9	4	4	18	21	8
IA2008 BC	13	6	3	10	11	19	13	20	12
Kenwood 94 (II)	4	18	20	20	2	16	2	7	10
Sturdy (E)	21	20	8	13	8	14	10	17	21
A91-607023	6	4	10	7	11	21	7	10	3
A91-607024	1	1	1	8	18	1	3	2	4
A91-607052	12	19	13	14	1	12	1	8	7
A92-627030	7	16	6	2	3	6	12	1	1
HF91-055	10	12	5	12	19	13	21	19	11
HF91-070	1	7	14	5	16	11	15	5	19
HF91-078	3	13	15	1	6	20	7	12	8
LN90-4366	19	14	19	19	20	2	19	14	2
SL91-1252N	14	5	9	11	13	15	15	16	16
SL91-1657N	11	11	12	16	7	8	4	6	14
U91-2519	5	3	4	15	9	17	14	4	18
U91-2527	16	17	21	6	9	5	9	3	6
U91-2722	9	9	18	17	5	18	6	9	19
U92-2212	8	21	11	18	14	7	17	18	5
U92-2426	15	15	16	21	17	10	5	11	12

UNIFORM TEST II, 1994

YIELD RANK

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	10	5	18	5	21	18	5
IA2007 BC	20	8	2	6	3	16	8
IA2008	12	15	8	19	16	17	20
IA2008 BC	16	2	6	20	15	15	21
Kenwood 94 (II)	15	7	16	3	17	20	12
Sturdy (E)	21	18	20	16	20	12	4
A91-607023	17	13	7	3	9	5	13
A91-607024	1	3	3	15	1	3	1
A91-607052	8	4	4	2	13	8	7
A92-627030	12	14	13	7	12	9	6
HF91-055	6	19	11	8	18	6	18
HF91-070	5	12	12	11	10	14	15
HF91-078	2	17	1	8	8	1	2
LN90-4366	4	16	21	13	14	7	16
SL91-1252N	11	20	9	18	11	11	9
SL91-1657N	9	9	10	12	18	19	14
U91-2519	3	10	5	10	2	2	11
U91-2527	14	11	19	14	5	4	18
U91-2722	7	21	14	21	4	13	17
U92-2212	18	6	15	1	7	21	10
U92-2426	18	1	17	16	6	10	3

MATURITY (date)

Strain	Mean 19 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	4.9	4	4		5	6	3
IA2007 BC	4.3	3	4		5	7	2
IA2008	1.8	-1	-1		0	2	0
IA2008 BC	2.9	1	1		3	4	1
Kenwood 94 (II)	09/16	09/12	09/10		09/11	09/07	09/10
Sturdy (E)	-0.7	-1	-2		0	-2	-4
A91-607023	-0.6	-1	-2		1	0	0
A91-607024	5.3	5	4		6	8	6
A91-607052	-0.6	-1	-1		-1	0	-3
A92-627030	2.8	4	3		2	5	7
HF91-055	0.6	0	0		2	4	1
HF91-070	4.6	5	4		5	8	5
HF91-078	3.9	3	4		4	5	2
LN90-4366	5.0	3	4		5	9	7
SL91-1252N	1.3	2	0		2	4	1
SL91-1657N	0.1	1	1		2	3	0
U91-2519	4.5	5	4		5	6	7
U91-2527	3.3	3	2		5	5	1
U91-2722	3.0	2	1		3	5	2
U92-2212	-0.4	-1	-2		-1	0	-1
U92-2426	2.1	2	0		1	4	-1
Date Planted	05/13	05/18	05/10		04/25	05/16	05/19
Days to Mature	125.9	117	123		139	114	114

UNIFORM TEST II, 1994
MATURITY (date)

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	3	6	4	6	6	5		4	5
IA2007 BC	2	6	3	1	3	6		3	5
IA2008	1	0	9	1	4	1		1	3
IA2008 BC	1	1	8	2	1	5		2	4
Kenwood 94 (II)	09/13	09/10	09/23	09/20	10/04	09/26		09/09	09/16
Sturdy (E)	2	-3	-3	-1	2	-1		-1	0
A91-607023	0	0	-2	-2	-1	-2		1	-1
A91-607024	3	6	7	5	6	4		4	7
A91-607052	0	1	-3	-1	0	-2		2	-1
A92-627030	2	3	1	2	-1	3		4	5
HF91-055	1	2	-3	0	2	-1		2	0
HF91-070	4	7	2	4	1	3		4	6
HF91-078	4	6	-1	2	5	4		4	4
LN90-4366	6	6	4	2	3	5		4	4
SL91-1252N	2	3	-1	1	2	0		1	2
SL91-1657N	0	1	-10	1	-2	-1		2	1
U91-2519	3	8	1	1	4	5		5	3
U91-2527	1	2	-1	2	5	2		3	7
U91-2722	4	4	-4	1	4	3		3	5
U92-2212	-1	-1	-4	-3	-1	3		1	0
U92-2426	0	2	-2	1	4	5		3	2
Date Planted	05/11	05/20	05/16	05/12	05/16	05/09		05/19	05/24
Days to Mature	125	113	130	131	141	140		113	115

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)		5	2	4	5	7	10
IA2007 BC		5	2	4	6	4	11
IA2008		-1	1	1	1	2	10
IA2008 BC		0	2	1	2	3	13
Kenwood 94 (II)		09/11	09/14	09/15	09/08	09/24	10/02
Sturdy (E)		-1	-3	-2	3	1	3
A91-607023		0	0	-1	-1	1	-1
A91-607024		3	2	3	6	8	7
A91-607052		-1	2	0	1	-3	0
A92-627030		4	2	2	4	1	0
HF91-055		-1	1	0	0	0	1
HF91-070		6	4	3	6	4	6
HF91-078		6	4	2	6	4	7
LN90-4366		5	4	5	5	6	8
SL91-1252N		1	0	0	2	2	1
SL91-1657N		0	-1	0	3	1	0
U91-2519		6	2	4	6	3	8
U91-2527		2	2	1	6	6	8
U91-2722		3	2	2	6	4	7
U92-2212		0	1	-1	0	1	3
U92-2426		2	1	1	5	4	6
Date Planted		05/10	05/06	05/13	05/04	05/13	05/19
Days to Mature		124	131	125	127	134	136

UNIFORM TEST II, 1994

LODGING (score)

Strain	Mean 21 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	1.8	1.4	2.0	1.9	2.0	1.2	1.0
IA2007 BC	1.8	1.4	1.9	1.7	2.0	1.2	1.0
IA2008	2.2	3.0	1.9	1.7	3.8	2.8	1.0
IA2008 BC	2.4	3.0	2.5	2.6	3.3	3.0	1.0
Kenwood 94 (II)	2.2	2.0	1.8	1.7	3.2	2.5	1.0
Sturdy (E)	2.0	1.7	1.7	2.7	3.3	2.3	1.0
A91-607023	2.1	1.7	1.5	1.9	2.7	2.8	1.0
A91-607024	1.8	1.7	1.5	1.6	1.8	1.8	1.0
A91-607052	1.9	1.5	1.8	1.6	3.7	2.5	1.0
A92-627030	1.7	1.6	1.7	1.3	1.7	1.3	1.0
HF91-055	2.1	2.0	2.5	1.7	2.7	2.3	1.0
HF91-070	2.1	1.7	1.7	1.6	3.0	2.3	1.0
HF91-078	2.2	2.3	2.2	1.6	3.0	2.3	1.0
LN90-4366	1.5	1.4	1.7	1.4	1.7	1.3	1.0
SL91-1252N	2.1	2.3	1.9	1.6	3.0	2.7	1.0
SL91-1657N	2.1	2.0	2.0	2.1	2.3	2.7	1.0
U91-2519	1.8	1.3	1.4	1.6	2.0	1.7	1.0
U91-2527	1.9	1.7	1.6	1.6	2.3	2.2	1.0
U91-2722	2.2	2.1	3.1	2.3	2.7	1.8	1.0
U92-2212	1.6	1.6	1.9	1.3	2.3	1.3	1.0
U92-2426	1.8	1.4	1.5	1.5	3.0	1.8	1.2

LODGING (score)

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	1.0	2.8	2.5	2.5	3.0	2.7	2.0	1.3	1.0
IA2007 BC	1.0	2.0	2.5	3.0	3.3	2.7	2.0	1.3	1.3
IA2008	1.0	2.8	2.5	3.0	3.0	3.0	2.3	1.0	2.0
IA2008 BC	1.0	2.7	3.0	3.0	3.0	3.0	2.3	1.3	2.3
Kenwood 94 (II)	1.0	2.8	4.0	2.5	3.0	2.7	2.0	1.3	1.3
Sturdy (E)	1.0	2.2	3.0	3.0	2.0	2.0	2.0	1.7	1.7
A91-607023	1.0	2.7	3.5	3.0	2.0	2.0	2.0	1.3	1.7
A91-607024	1.0	2.3	2.5	2.5	2.3	2.3	2.0	1.7	2.0
A91-607052	1.0	2.3	3.5	3.0	2.0	2.0	1.3	1.0	1.0
A92-627030	1.0	2.7	3.0	2.5	2.0	2.0	1.0	1.3	1.7
HF91-055	1.0	3.3	3.5	3.0	2.7	2.3	2.0	1.3	2.0
HF91-070	1.0	2.7	3.5	3.5	2.3	2.0	2.0	1.7	2.0
HF91-078	1.0	2.3	4.0	4.0	3.0	2.0	2.0	1.0	2.0
LN90-4366	1.0	1.8	2.5	2.0	1.0	2.3	1.5	1.3	1.0
SL91-1252N	1.0	3.0	3.5	2.5	2.0	2.0	2.0	1.0	2.0
SL91-1657N	1.0	3.0	2.5	3.5	2.0	2.3	2.0	1.3	2.0
U91-2519	1.0	2.0	3.0	2.5	2.7	2.0	1.7	1.3	1.0
U91-2527	1.0	2.3	3.0	3.0	2.0	2.7	2.0	1.0	2.3
U91-2722	1.0	2.8	3.5	3.0	2.3	3.0	2.0	1.0	2.0
U92-2212	1.0	1.5	3.0	2.0	1.3	2.0	1.7	1.0	1.0
U92-2426	1.0	2.0	3.0	2.0	2.0	2.7	2.0	1.3	1.7

UNIFORM TEST II, 1994

LODGING (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	1.3	1.0	1.1	1.3	1.0		3.0
IA2007 BC	1.5	1.0	1.0	1.3	1.0		3.2
IA2008	1.7	1.3	1.2	2.7	2.0		3.0
IA2008 BC	2.7	1.5	1.2	2.0	2.0		3.2
Kenwood 94 (II)	2.7	2.0	1.4	2.3	1.0		3.7
Sturdy (E)	2.7	1.0	1.1	1.3	1.0		3.8
A91-607023	3.0	1.0	1.5	2.0	2.0		3.2
A91-607024	1.7	1.0	1.1	1.7	1.0		3.2
A91-607052	2.3	1.0	1.3	1.3	1.0		3.7
A92-627030	1.5	1.2	1.3	1.0	2.0		2.7
HF91-055	3.0	1.3	1.4	1.3	1.0		3.5
HF91-070	1.7	1.2	1.1	2.0	2.0		3.3
HF91-078	2.7	1.1	1.2	2.0	2.0		3.2
LN90-4366	1.0	1.1	1.4	1.0	2.0		2.5
SL91-1252N	3.3	1.5	1.4	1.7	2.0		3.7
SL91-1657N	2.7	1.2	1.5	2.0	2.0		4.0
U91-2519	2.3	1.0	1.1	1.3	2.0		3.5
U91-2527	2.0	1.0	1.0	1.3	2.0		3.5
U91-2722	2.3	1.0	1.2	1.7	2.0		3.5
U92-2212	1.7	1.0	1.1	1.3	1.0		3.2
U92-2426	1.7	1.0	1.0	1.7	1.0		3.0

PLANT HEIGHT (inches)

Strain	Mean 22 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	37	41	40	39	46	39	32
IA2007 BC	37	41	42	41	44	38	31
IA2008	39	44	42	41	46	40	35
IA2008 BC	39	45	42	43	45	40	36
Kenwood 94 (II)	35	37	40	39	44	36	32
Sturdy (E)	35	38	40	38	44	38	30
A91-607023	35	39	37	38	41	39	31
A91-607024	39	42	42	43	47	40	35
A91-607052	32	35	37	35	38	34	28
A92-627030	35	40	38	39	40	37	33
HF91-055	37	39	42	41	45	39	33
HF91-070	36	39	39	39	42	37	32
HF91-078	35	39	38	37	41	35	30
LN90-4366	35	40	39	39	42	36	32
SL91-1252N	36	39	38	39	43	38	35
SL91-1657N	36	38	38	38	41	40	33
U91-2519	36	38	38	37	39	36	33
U91-2527	37	44	43	39	44	37	34
U91-2722	38	41	41	41	45	42	33
U92-2212	34	37	37	36	40	35	28
U92-2426	35	39	38	39	41	37	29

UNIFORM TEST II, 1994

PLANT HEIGHT (inches)

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	25	36	39	42	41	39	34	39	39
IA2007 BC	24	36	42	44	42	39	34	39	41
IA2008	22	37	48	41	46	39	38	37	37
IA2008 BC	25	36	42	41	43	41	40	38	44
Kenwood 94 (II)	25	33	39	32	40	41	34	36	36
Sturdy (E)	19	33	39	35	43	38	36	34	40
A91-607023	25	34	38	35	41	37	37	36	38
A91-607024	26	37	43	39	43	45	38	37	42
A91-607052	22	30	38	30	38	34	33	31	32
A92-627030	23	33	38	35	41	38	34	35	38
HF91-055	25	35	42	36	39	41	36	37	40
HF91-070	28	35	39	36	40	41	38	37	37
HF91-078	25	31	42	37	39	39	35	35	36
LN90-4366	25	34	35	35	40	37	34	37	36
SL91-1252N	25	35	37	36	40	41	38	34	37
SL91-1657N	22	34	39	37	42	40	33	40	41
U91-2519	25	34	36	38	40	41	36	37	36
U91-2527	22	34	38	38	42	41	37	35	43
U91-2722	26	36	39	35	44	38	41	35	41
U92-2212	21	31	39	34	41	39	32	35	36
U92-2426	23	32	37	38	39	37	36	37	40

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	30	31	28	36	40	37	46
IA2007 BC	30	31	29	37	38	39	42
IA2008	33	32	33	41	39	36	41
IA2008 BC	34	32	31	41	41	39	42
Kenwood 94 (II)	27	31	28	35	36	33	37
Sturdy (E)	28	30	27	35	36	38	38
A91-607023	29	31	29	36	32	37	40
A91-607024	33	33	32	41	39	39	44
A91-607052	26	28	26	30	32	33	39
A92-627030	27	30	27	34	41	38	40
HF91-055	33	31	29	34	40	40	42
HF91-070	30	29	29	37	37	35	43
HF91-078	28	29	29	34	35	42	40
LN90-4366	32	29	28	33	32	36	42
SL91-1252N	30	32	29	35	39	36	40
SL91-1657N	29	32	28	36	37	38	40
U91-2519	31	28	32	35	39	32	41
U91-2527	31	28	29	36	38	45	41
U91-2722	30	29	29	36	39	44	41
U92-2212	27	30	26	34	34	36	41
U92-2426	31	30	26	36	36	38	41

UNIFORM TEST II, 1994

SEED QUALITY (score)

Strain	Mean 21 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	1.6	2.0	2.0	2.0	1.5	1.5	1.5
IA2007 BC	1.8	2.0	1.5	2.0	1.8	1.5	1.5
IA2008	1.8	1.5	2.0	1.5	1.5	1.5	1.5
IA2008 BC	1.7	1.5	2.0	1.5	1.5	1.5	1.5
Kenwood 94 (II)	1.9	2.0	2.0	2.0	1.5	1.5	1.5
Sturdy (E)	1.9	1.5	1.5	2.0	1.7	1.5	1.5
A91-607023	1.7	1.5	1.5	2.0	1.5	1.5	1.5
A91-607024	1.7	1.5	1.5	1.5	1.5	1.5	1.5
A91-607052	1.8	1.5	1.5	1.5	1.5	1.5	1.5
A92-627030	1.8	2.0	2.0	2.0	1.5	1.5	1.5
HF91-055	1.8	2.0	1.5	2.5	2.2	1.5	1.5
HF91-070	1.6	1.5	1.5	1.0	1.5	1.5	1.5
HF91-078	1.8	2.5	2.0	2.0	1.7	1.5	1.5
LN90-4366	1.7	2.0	2.0	1.5	1.5	1.5	1.5
SL91-1252N	1.9	1.5	1.5	1.5	1.5	1.5	1.5
SL91-1657N	1.9	2.0	2.0	2.0	1.7	1.5	1.5
U91-2519	1.6	1.5	1.0	2.0	1.5	1.5	1.7
U91-2527	1.8	1.5	1.5	2.0	1.7	1.5	1.5
U91-2722	1.7	1.5	1.5	2.0	1.5	1.5	1.5
U92-2212	1.9	1.5	1.5	2.5	1.5	1.5	1.5
U92-2426	1.8	1.5	1.5	2.0	1.5	1.5	1.5

SEED QUALITY (score)

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	1.5	1.0	1.5		1.7	1.7	1.3	2.0	2.0
IA2007 BC	1.0	1.0	1.5		1.7	2.0	2.3	2.3	2.3
IA2008	1.0	1.0	2.0		1.7	1.3	3.0	2.3	2.0
IA2008 BC	1.5	1.0	1.5		1.3	1.3	2.0	2.0	2.0
Kenwood 94 (II)	1.5	1.5	1.5		2.0	1.7	2.0	2.0	2.0
Sturdy (E)	1.5	1.0	1.5		2.0	1.7	2.7	3.3	1.7
A91-607023	1.5	1.0	1.5		1.7	1.3	2.0	2.3	1.7
A91-607024	2.0	1.5	1.5		2.3	1.7	1.3	1.7	2.0
A91-607052	1.5	1.5	1.0		1.3	1.3	2.7	2.0	2.0
A92-627030	1.5	1.5	2.0		1.3	1.7	2.0	2.0	2.0
HF91-055	1.5	1.0	2.5		1.7	1.3	1.7	1.7	2.0
HF91-070	1.0	1.0	1.0		1.7	1.3	1.0	1.7	2.0
HF91-078	1.5	1.0	1.0		2.7	2.3	1.5	1.7	2.0
LN90-4366	1.0	1.0	1.0		1.3	1.3	2.5	2.0	2.0
SL91-1252N	1.5	1.5	1.5		1.3	1.3	2.7	2.7	2.0
SL91-1657N	1.5	1.5	1.5		1.7	2.0	2.3	2.0	2.3
U91-2519	1.5	1.0	1.0		1.3	1.7	2.3	2.3	1.3
U91-2527	2.0	1.0	1.5		1.7	2.0	2.0	2.7	1.7
U91-2722	1.5	1.0	1.5		1.3	1.3	2.3	3.0	1.3
U92-2212	2.0	1.0	1.0		1.3	2.0	1.3	1.7	2.3
U92-2426	1.5	1.0	1.5		1.3	1.7	2.3	2.3	2.0

UNIFORM TEST II, 1994

SEED QUALITY (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	1.7	1.0	1.0	1.3	3.0	1.0	2.2
IA2007 BC	1.7	2.0	1.0	2.0	3.0	1.0	2.3
IA2008	1.7	2.0	2.0	1.7	2.0	2.0	3.2
IA2008 BC	1.3	2.0	1.0	1.7	2.0	2.0	3.3
Kenwood 94 (II)	1.3	1.0	2.0	2.3	4.0	2.0	2.5
Sturdy (E)	3.0	1.0	1.0	2.3	4.0	1.0	2.8
A91-607023	1.7	1.5	1.0	2.3	3.0	1.0	3.0
A91-607024	1.3	1.0	1.0	2.7	3.0	2.0	2.0
A91-607052	2.7	2.0	1.0	1.7	3.0	3.0	1.8
A92-627030	3.0	2.0	1.0	2.3	3.0	1.0	2.0
HF91-055	1.0	1.0	1.0	2.3	4.0	2.0	2.8
HF91-070	1.0	1.0	2.0	2.3	3.0	2.0	2.3
HF91-078	1.0	1.0	1.0	2.0	3.0	2.0	2.3
LN90-4366	1.0	2.0	1.0	2.0	4.0	2.0	2.5
SL91-1252N	1.7	2.0	2.0	1.7	4.0	2.0	2.7
SL91-1657N	1.7	2.0	1.0	2.3	4.0	1.0	2.3
U91-2519	1.3	2.0	1.0	2.0	3.0	1.0	1.7
U91-2527	2.0	1.0	2.0	2.3	3.0	1.0	2.7
U91-2722	1.3	2.0	1.0	2.0	4.0	1.0	2.7
U92-2212	2.0	2.0	2.0	2.3	4.0	2.0	2.7
U92-2426	1.3	2.0	2.0	1.7	3.0	2.0	2.5

SEED SIZE (g/100)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Keystone IA	Dekalb IL	Dwight IL	Urbana IL
IA2007 (L)	18.9	18.2	19.1	19.3	18.9	20.2	18.8
IA2007 BC	19.0	18.4	18.0	18.4	19.7	20.1	16.3
IA2008	15.7	14.4	14.9	14.8	15.0	15.7	14.6
IA2008 BC	15.8	15.2	15.2	15.3	15.3	15.8	15.0
Kenwood 94 (II)	16.7	16.8	16.3	17.2	17.4	16.5	14.6
Sturdy (E)	18.9	18.0	17.2	18.6	19.0	19.6	18.0
A91-607023	17.2	17.0	16.3	18.2	16.9	17.0	15.3
A91-607024	16.2	16.2	14.6	15.5	16.1	17.2	17.0
A91-607052	18.3	18.3	17.4	17.8	18.8	18.0	15.6
A92-627030	17.4	18.0	17.0	17.9	16.3	17.3	17.8
HF91-055	18.1	19.4	18.6	18.4	17.8	18.3	17.6
HF91-070	17.4	17.4	16.2	17.6	17.9	17.0	15.4
HF91-078	17.9	18.2	17.8	17.8	17.4	18.5	16.3
LN90-4366	17.0	16.4	16.3	16.4	16.3	17.4	15.7
SL91-1252N	16.4	15.9	15.3	16.8	16.4	16.8	15.5
SL91-1657N	16.6	16.6	15.4	16.2	16.1	17.1	12.9
U91-2519	18.4	17.8	17.5	18.8	17.8	18.4	19.3
U91-2527	18.2	17.7	17.7	17.9	17.5	18.8	16.6
U91-2722	16.1	15.4	16.8	16.2	15.3	16.4	14.7
U92-2212	19.0	18.6	18.2	17.9	19.8	18.4	18.8
U92-2426	18.0	16.8	16.6	17.5	18.3	18.2	15.0

UNIFORM TEST II, 1994

SEED SIZE (g/100)

Strain	Bluff-ton IN	Lafay-ette IN	Ingham County MI	Lenawee County MI	Lamber-ton MN	Waseca MN	Cedar Rapids NE	David City NE	Hart-ington NE
IA2007 (L)	19.2	18.7	20.7		21.6	20.4	17.8	18.0	19.1
IA2007 BC	18.6	19.6	18.9		19.9	19.5	18.8	18.3	19.1
IA2008	16.7	15.7	16.5		16.5	15.8	16.5	14.7	16.2
IA2008 BC	16.6	15.6	16.0		17.0	16.2	16.0	15.1	16.6
Kenwood 94 (II)	15.9	16.0	18.4		17.8	17.1	18.1	16.6	16.3
Sturdy (E)	19.4	18.2	20.0		20.2	17.8	19.4	18.4	19.9
A91-607023	17.4	16.7	18.9		19.1	17.1	18.1	16.7	17.3
A91-607024	17.0	16.3	16.9		16.9	16.6	16.0	16.0	17.1
A91-607052	18.3	18.5	19.9		19.5	17.5	19.3	18.3	18.5
A92-627030	17.4	17.0	19.6		18.3	18.1	17.2	17.7	18.2
HF91-055	17.5	18.3	19.3		20.0	18.3	18.3	17.4	18.8
HF91-070	17.3	17.4	19.0		18.2	17.6	18.1	17.6	17.4
HF91-078	17.0	17.5	19.6		19.7	18.9	17.8	17.9	18.3
LN90-4366	16.7	16.8	18.2		17.2	18.2	17.0	16.1	17.9
SL91-1252N	17.0	15.9	18.1		17.5	15.8	17.7	16.4	16.7
SL91-1657N	16.4	16.1	17.7		16.8	16.8	17.8	16.2	16.4
U91-2519	17.0	18.1	19.0		19.0	19.5	18.6	18.9	18.1
U91-2527	20.1	17.5	18.1		18.6	18.3	18.1	17.9	18.7
U91-2722	15.2	15.4	17.9		17.0	16.4	17.6	16.7	16.7
U92-2212	19.3	18.1	20.7		19.1	18.8	19.1	18.1	19.4
U92-2426	19.6	17.6	19.9		18.7	18.9	19.6	17.6	17.5

SEED SIZE (g/100)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Ridge-town Ont.	Beres-ford SD	Brook-ings SD	Arling-ton WI
IA2007 (L)	17.3	19.7	18.9		15.0	16.0	20.9
IA2007 BC	17.0	19.3	20.0		18.0	20.0	21.2
IA2008	14.7	16.8	17.1		15.0	16.0	16.6
IA2008 BC	14.3	16.9	17.9		14.0	15.0	16.5
Kenwood 94 (II)	15.0	16.9	16.2		14.0	17.0	19.7
Sturdy (E)	18.0	18.8	20.3		17.0	19.0	20.9
A91-607023	15.0	18.1	18.0		13.0	18.0	19.0
A91-607024	15.3	17.9	16.5		13.0	15.0	16.3
A91-607052	17.3	18.6	19.0		15.0	19.0	20.6
A92-627030	16.0	17.3	17.4		13.0	17.0	19.3
HF91-055	17.0	18.6	18.2		14.0	17.0	18.9
HF91-070	15.7	19.3	16.1		17.0	16.0	19.3
HF91-078	16.3	18.0	18.0		15.0	18.0	20.2
LN90-4366	15.3	16.8	16.0		21.0	17.0	18.1
SL91-1252N	14.3	15.9	16.4		13.0	18.0	18.8
SL91-1657N	15.0	21.6	16.8		14.0	17.0	19.0
U91-2519	17.7	18.5	18.1		17.0	19.0	20.1
U91-2527	17.0	16.8	18.2		15.0	23.0	19.9
U91-2722	15.0	16.5	16.5		12.0	18.0	16.4
U92-2212	18.0	19.5	18.9		16.0	22.0	22.0
U92-2426	15.7	18.6	19.5		15.0	19.0	19.6

UNIFORM TEST II, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Bluffton IN	Hoytville OH
IA2007 (L)	40.4	40.9	38.2	41.8	40.8
IA2007 BC	40.0	39.8	38.1	41.5	40.5
IA2008	40.6	40.0	37.9	41.4	43.2
IA2008 BC	40.1	40.6	37.8	40.7	41.3
Kenwood 94 (II)	39.5	40.6	36.9	40.0	40.4
Sturdy (E)	40.8	41.3	39.0	41.6	41.2
A91-607023	40.7	40.6	37.8	41.6	42.6
A91-607024	41.0	41.0	39.5	42.3	41.2
A91-607052	39.3	40.0	36.4	41.2	39.7
A92-627030	40.7	42.1	39.7	41.1	39.8
HF91-055	40.2	40.5	39.1	41.2	40.0
HF91-070	40.6	40.6	38.9	41.7	41.0
HF91-078	40.2	40.4	38.0	41.5	40.8
LN90-4366	40.8	41.0	38.6	42.5	41.1
SL91-1252N	39.8	40.4	38.0	40.6	40.3
SL91-1657N	39.9	40.0	36.5	41.0	42.0
U91-2519	39.9	41.1	38.5	41.5	38.5
U91-2527	40.4	40.7	37.4	41.8	41.8
U91-2722	40.9	42.2	38.4	43.1	39.9
U92-2212	41.4	42.1	40.0	42.0	41.3
U92-2426	41.3	41.7	38.5	43.8	41.1

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Bluffton IN	Hoytville OH
IA2007 (L)	20.5	19.8	22.1	20.2	19.7
IA2007 BC	20.9	20.3	22.0	20.9	20.4
IA2008	20.3	19.7	21.6	19.9	19.8
IA2008 BC	20.6	20.4	21.7	20.1	20.0
Kenwood 94 (II)	20.6	19.9	22.1	20.3	19.9
Sturdy (E)	20.7	20.4	21.7	20.6	20.1
A91-607023	20.5	20.0	21.8	20.0	20.2
A91-607024	20.1	20.1	21.0	19.9	19.5
A91-607052	21.1	20.5	22.3	21.0	20.4
A92-627030	20.7	20.2	21.8	20.5	20.1
HF91-055	20.7	19.9	22.1	20.5	20.3
HF91-070	20.6	20.2	21.7	20.6	19.9
HF91-078	20.7	20.0	22.3	20.5	20.0
LN90-4366	20.2	19.4	21.4	19.8	20.0
SL91-1252N	20.8	20.3	21.6	21.1	20.0
SL91-1657N	20.8	20.1	22.3	20.3	20.3
U91-2519	20.7	20.0	21.9	20.4	20.5
U91-2527	20.6	20.1	21.9	20.6	19.8
U91-2722	20.4	20.3	21.9	19.6	19.7
U92-2212	20.6	20.0	21.5	20.7	20.0
U92-2426	20.4	19.4	21.5	20.1	20.4

PRELIMINARY TEST IIA, 1994

Strain	Parentage	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	F5	
IA2008 (BSR)	BSR 101 x A80-344003	F5	BSR resis.
Kenwood 94 (II)	Kenwood^4 x Elgin 87	BC4 F4	Rps1-k
Sturdy (E)	M70-127 x Century	F5	
A93-552019	LN86-983 x Asgrow A2234	F5	BSR resis.
A93-552024	LN86-983 x Marcus	F5	BSR resis.
A93-552027	Asgrow A3935 x LN86-983	F5	BSR resis.
A93-552028	Archer x Kenwood	F5	BRS resis.
A93-552032	IA2008 x Kenwood	F5	BRS resis.
A93-554027	Northrup King S19-90 x A86-301024	F5	
A93-554028	Marcus x Kenwood	F5	
A93-554040	Kenwood x Asgrow A3427	F5	
A93-554041	A86-301024 x Kenwood	F5	
A93-554053	Marcus x Kenwood	F5	
A93-555029	[(A87-186035 x Northrup King S23-12) x Sturdy] x A87-187020	F5	Chlo. resis
A93-652031	IA2008 x Kenwood	F5	BRS resis.
A93-654020	Northrup King S30-41 x Archer	F5	BSR resis.
A93-654042	A86-301024 x Marcus	F5	
U93-2106	HC84-1060 x Burlison	F6	
U93-2110	SG1Y/10PD	F6	
U93-2116	M84-916 x LN85-10234	F6	
U93-2119	M84-916 x Northrup King S23-03	F6	
U93-2132	Kunitz x Pioneer 9341	F4	titi
U93-2133	Kunitz x Uphoff 3100	F4	
U93-2209	M84-916 x Asgrow A3205	F6	
U93-2225	LN85-10234 x Northrup King S23-03	F6	
U93-2312	M84-916 x Burlison	F6	
U93-2334	Kunitz x Pioneer 9272	F4	
U93-2412	M84-916 x Asgrow A3935	F6	
U93-2505	M84-916 x Asgrow A4393	F6	
U93-2508	LN85-10234 x Asgrow A4393	F6	
U93-2530	LN85-10234 x Asgrow A3935	F6	
U93-2737	UP3CO Intermated Population	F5	

PRELIMINARY TEST IIA, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR - Boone Plant n %	BSR - Boone Stem n %
IA2007 (L)	PTBIYBrI	4.3	1	95.0	55.5
IA2008 (BSR)	WGTSYBfI	3.7	2	45.0	15.7
Kenwood 94 (II)	PTBIYBlI	4.3	1	100.0	50.0
Sturdy (E)	PGBDYIbI	2.8	1	100.0	76.0
A93-552019	PTTSYBlI	2.8	2	60.0	25.3
A93-552024	PTTDYBrI	4.2	2	50.0	20.1
A93-552027	PTBDYBlI	3.0	1	90.0	71.3
A93-552028	PTTDYBlI	2.7	1	85.0	25.0
A93-552032	WTBIYBlI	2.8	2	80.0	54.0
A93-554027	PTBIYBlI	4.2	2	95.0	44.2
A93-554028	WTBDYBlI	4.0	1	100.0	50.1
A93-554040	PTBDYBlI	4.2	1	95.0	47.2
A93-554041	PTBSYBlI	3.2	1	90.0	42.7
A93-554053	WTBDYBlI	4.5	1	95.0	63.2
A93-555029	PGBSYIbI	2.3	2	100.0	58.0
A93-652031	PTBIYBlI	3.8	2	90.0	40.5
A93-654020	PGBDYYI	3.3	1	80.0	50.8
A93-654042	WTTIYBlI	4.0	1	95.0	64.9
U93-2106	WGBSYBfI	2.8	1	90.0	59.7
U93-2110	WGBDYBfI	2.8	1	95.0	58.1
U93-2116	WGBDYBfI	4.0	1	100.0	61.8
U93-2119	PGBIYBfI	3.3	2	90.0	51.3
U93-2132	WG+TBDYBrI	4.2	1	85.0	66.8
U93-2133	WTTSYBf+BlI	4.0	1	95.0	62.6
U93-2209	WGBSYYI	4.7	1	100.0	56.8
U93-2225	PTTDYBrI	4.0	1	100.0	50.9
U93-2312	WGTDYBfI	2.5	1	90.0	61.3
U93-2334	PTB+TSYBfI	3.7	1	95.0	64.5
U93-2412	WTBIYBlI	2.8	1	65.0	28.5
U93-2505	WG+TBDYBf+BlI	4.2	1	80.0	54.1
U93-2508	P+WTTDYBlI	3.8	1	85.0	42.2
U93-2530	WTBDYBlI	4.8	2	90.0	46.3
U93-2737	PGBDYIbI	3.3	1	85.0	47.7

PRELIMINARY TEST IIA, 1994

DISEASE DATA

Strain	PR Custar Root Rot Race 25	PR Ames Race 4	PR Lafayette Race 7	PS Laf. a %
IA2007 (L)	3.6	S	R	6
IA2008 (BSR)	4.4	S	R	33
Kenwood 94 (II)	4.1	R	R	31
Sturdy (E)	4.9	S	S	25
A93-552019	3.7	H	H	29
A93-552024	4.2	S	S	33
A93-552027	4.9	S	S	27
A93-552028	4.1	R	R	34
A93-552032	4.2	S	S	34
A93-554027	4.1	S	R	16
A93-554028	5.7	S	H	36
A93-554040	4.2	S	S	16
A93-554041	4.0	S	R	12
A93-554053	5.0	S	H	54
A93-555029	4.6	S	D	24
A93-652031	4.1	S	R	19
A93-654020	3.6	H	S	14
A93-654042	4.2	S	H	35
U93-2106	3.4	R	R	22
U93-2110	3.4	S	H	27
U93-2116	4.0	S	S	42
U93-2119	4.0	S	S	7
U93-2132	4.8	H	S	11
U93-2133	4.0	S	S	6
U93-2209	3.8	S	S	16
U93-2225	4.1	S	H	12
U93-2312	3.9	R	R	34
U93-2334	3.2	H	R	5
U93-2412	3.8	S	S	34
U93-2505	4.1	S	S	31
U93-2508	4.0	S	S	39
U93-2530	3.9	S	S	7
U93-2737	4.3	S	S	38

PRELIMINARY TEST IIA, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 10 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 12 Score	Seed Size 11 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	58.3	5	4.2	1.6	37	1.7	18.4	41.0	20.6
IA2008 (BSR)	56.3	16	0.5	1.9	38	1.7	15.1	39.5	20.4
Kenwood 94 (II)	55.7	22	09/15	2.3	36	1.6	15.8	39.8	20.4
Sturdy (E)	53.1	31	-1.8	1.8	36	2.0	18.2	40.5	20.6
A93-552019	58.0	7	0.4	1.5	37	2.0	17.9	40.0	21.0
A93-552024	57.5	10	-1.6	2.3	37	1.8	17.2	40.5	20.7
A93-552027	56.3	16	-1.1	1.5	35	1.6	18.1	39.7	20.5
A93-552028	59.0	3	0.9	1.9	35	1.8	18.4	39.9	20.4
A93-552032	57.1	12	-1.2	2.7	39	1.8	14.5	39.4	20.6
A93-554027	57.7	9	-0.9	1.7	37	1.8	19.2	39.7	20.5
A93-554028	56.2	18	-0.3	1.9	36	2.0	18.1	40.4	20.6
A93-554040	59.2	2	2.2	1.7	36	1.8	18.0	41.7	20.6
A93-554041	58.1	6	-0.6	1.6	33	1.7	18.6	40.7	20.0
A93-554053	58.5	4	0.2	1.8	35	2.2	18.4	40.5	20.5
A93-555029	56.1	20	0.3	1.8	36	1.8	19.8	41.7	20.4
A93-652031	56.1	20	1.1	2.0	40	1.8	16.5	41.8	19.9
A93-654020	57.8	8	1.9	1.5	38	1.7	16.8	38.9	20.2
A93-654042	54.2	29	2.7	1.8	37	1.9	19.6	41.9	20.5
U93-2106	51.9	32	1.5	2.3	39	1.7	18.3	42.5	20.4
U93-2110	56.7	15	4.1	2.4	41	1.9	15.6	40.3	20.2
U93-2116	54.4	28	3.2	2.7	40	2.3	17.6	40.1	20.1
U93-2119	54.5	27	1.4	2.5	39	1.8	17.2	41.5	20.6
U93-2132	51.3	33	-1.9	2.2	35	1.9	20.2	40.3	20.6
U93-2133	55.4	24	5.1	1.6	35	1.6	15.2	41.8	20.0
U93-2209	55.7	22	4.6	2.5	41	1.5	16.0	39.7	20.3
U93-2225	55.1	26	5.7	2.6	40	2.0	18.7	41.3	20.0
U93-2312	55.3	25	0.5	2.2	39	2.0	18.1	41.5	20.2
U93-2334	53.8	30	5.4	2.3	39	1.8	18.6	42.0	20.6
U93-2412	61.5	1	7.5	2.1	42	1.8	19.2	41.8	20.4
U93-2505	57.0	13	5.4	2.3	41	1.9	19.1	42.0	20.5
U93-2508	56.2	18	0.0	1.5	37	1.9	17.8	40.5	20.5
U93-2530	57.4	11	4.5	1.7	38	2.0	16.6	41.4	20.1
U93-2737	56.8	14	3.9	1.7	36	1.9	17.2	40.6	20.8

122.3 Days After Planting

PRELIMINARY TEST IIA, 1994

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	58.3	62.8	50.5	54.8	67.6	45.0
IA2008 (BSR)	56.3	63.3	50.2	53.9	68.8	60.2
Kenwood 94 (II)	55.7	65.2	56.6	44.9	53.7	46.7
Sturdy (E)	53.1	69.3	52.3	47.4	52.4	37.4
A93-552019	58.0	64.0	56.9	43.9	69.1	62.5
A93-552024	57.5	67.4	55.9	49.9	61.8	60.2
A93-552027	56.3	63.8	55.2	44.6	67.5	55.2
A93-552028	59.0	65.0	60.9	42.7	62.2	67.9
A93-552032	57.1	68.3	53.9	46.5	71.6	46.8
A93-554027	57.7	67.4	57.4	47.1	67.7	44.0
A93-554028	56.2	65.9	54.6	49.3	57.3	45.6
A93-554040	59.2	66.2	59.2	47.2	64.5	54.4
A93-554041	58.1	66.9	55.9	51.9	58.0	56.8
A93-554053	58.5	62.1	54.7	58.5	64.0	47.3
A93-555029	56.1	63.6	47.8	59.2	57.0	38.2
A93-652031	56.1	62.7	52.3	64.4	60.3	42.8
A93-654020	57.8	61.5	53.4	54.2	64.5	54.0
A93-654042	54.2	59.7	47.6	55.9	63.3	32.6
U93-2106	51.9	57.3	45.0	54.0	62.6	50.3
U93-2110	56.7	71.8	53.4	53.5	62.1	44.0
U93-2116	54.4	63.1	48.7	51.6	54.4	48.7
U93-2119	54.5	65.1	47.3	47.2	62.0	38.4
U93-2132	51.3	63.5	46.7	43.2	57.9	42.1
U93-2133	55.4	59.6	48.0	49.7	71.0	43.9
U93-2209	55.7	63.7	45.7	46.9	63.8	32.8
U93-2225	55.1	67.7	54.2	48.6	73.3	43.9
U93-2312	55.3	61.5	51.6	48.9	57.6	53.0
U93-2334	53.8	59.0	48.0	54.3	64.3	36.5
U93-2412	61.5	69.7	59.2	60.4	71.0	55.9
U93-2505	57.0	67.3	58.8	55.3	67.8	53.0
U93-2508	56.2	65.1	56.3	51.8	66.5	48.4
U93-2530	57.4	65.4	53.9	52.7	66.6	44.3
U93-2737	56.8	61.8	56.3	55.5	65.0	45.2
C.V. (%)		4.5	6.0	13.9	6.6	12.0
L.S.D. (5%)		5.8	6.4	ns	8.6	11.7
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIA, 1994

YIELD (bu/a)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	59.9	57.4	50.0	68.8	71.2	56.3	54.9
IA2008 (BSR)	49.6	54.4	45.2	61.7	60.9	56.0	50.9
Kenwood 94 (II)	57.0	55.7	47.7	61.6	71.4	55.2	52.9
Sturdy (E)	53.6	58.3	44.6	53.2	63.6	53.3	52.0
A93-552019	53.5	56.2	51.0	64.9	65.6	53.7	54.1
A93-552024	61.4	54.9	47.0	53.8	64.1	56.4	57.2
A93-552027	54.2	56.6	48.3	54.9	69.2	53.8	51.9
A93-552028	59.6	58.6	51.2	65.2	62.2	54.1	58.8
A93-552032	55.9	54.9	47.4	66.7	65.7	55.2	52.6
A93-554027	60.0	59.4	46.0	56.8	69.0	60.5	57.1
A93-554028	64.4	60.9	49.6	58.3	65.8	52.9	50.0
A93-554040	54.7	60.2	53.4	67.4	72.1	56.6	54.1
A93-554041	54.2	57.9	54.0	64.4	69.4	54.7	53.6
A93-554053	64.7	61.2	51.9	59.7	67.4	59.7	50.2
A93-555029	58.9	57.2	57.8	57.8	69.5	50.7	55.5
A93-652031	57.5	51.8	47.0	63.7	64.5	53.3	53.1
A93-654020	60.3	57.1	49.9	60.9	71.5	52.9	53.9
A93-654042	61.5	54.4	48.3	60.2	61.7	55.1	49.8
U93-2106	52.4	49.9	45.5	57.5	57.5	40.7	49.9
U93-2110	61.0	59.3	45.3	61.8	66.7	55.0	45.9
U93-2116	56.5	55.8	44.7	59.2	66.2	55.2	48.9
U93-2119	55.5	58.6	43.6	64.0	67.2	53.7	51.3
U93-2132	57.6	51.3	39.7	49.1	66.4	51.5	46.6
U93-2133	56.3	56.4	47.9	60.3	62.3	54.4	54.9
U93-2209	59.4	58.4	49.2	59.8	72.5	67.1	48.9
U93-2225	52.8	53.6	46.0	61.3	57.5	52.4	50.2
U93-2312	55.5	53.6	45.2	61.5	65.5	60.5	48.8
U93-2334	55.1	51.0	51.3	59.8	63.4	53.6	48.8
U93-2412	71.2	53.3	54.5	59.2	69.4	63.9	50.8
U93-2505	57.7	55.5	47.3	55.8	67.7	51.0	46.4
U93-2508	54.1	55.7	50.4	56.9	69.0	53.9	46.0
U93-2530	60.4	57.7	50.5	64.9	62.8	55.8	53.5
U93-2737	56.7	58.3	49.8	58.2	65.9	59.1	49.4
C.V. (%)	11.0	8.0	7.6	5.7	5.6	9.4	7.1
L.S.D. (5%)	6.6	5.0	7.4	7.0	7.6	8.8	7.5
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIA, 1994

YIELD RANK

Strain	Yield Rank	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	5	24	23	8	9	20
IA2008 (BSR)	16	22	24	12	6	3
Kenwood 94 (II)	22	13	7	29	32	17
Sturdy (E)	31	3	20	23	33	30
A93-552019	7	17	6	31	5	2
A93-552024	10	6	10	18	24	4
A93-552027	16	18	12	30	10	7
A93-552028	3	16	1	33	21	1
A93-552032	12	4	16	28	2	16
A93-554027	9	6	5	26	8	22
A93-554028	18	11	14	20	29	18
A93-554040	2	10	2	24	14	8
A93-554041	6	9	10	15	26	5
A93-554053	4	26	13	4	17	15
A93-555029	20	20	28	3	30	29
A93-652031	20	25	20	1	25	26
A93-654020	8	28	18	10	14	9
A93-654042	29	30	29	5	19	33
U93-2106	32	33	33	11	20	12
U93-2110	15	1	18	13	22	23
U93-2116	28	23	25	17	31	13
U93-2119	27	14	30	24	23	28
U93-2132	33	21	31	32	27	27
U93-2133	24	31	26	19	3	25
U93-2209	22	19	32	27	18	32
U93-2225	26	5	15	22	1	24
U93-2312	25	28	22	21	28	10
U93-2334	30	32	26	9	16	31
U93-2412	1	2	2	2	3	6
U93-2505	13	8	4	7	7	11
U93-2508	18	14	8	16	12	14
U93-2530	11	12	16	14	11	21
U93-2737	14	27	8	6	13	19

PRELIMINARY TEST IIA, 1994

YIELD RANK

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	10	13	11	1	5	9	5
IA2008 (BSR)	33	25	28	11	31	10	18
Kenwood 94 (II)	17	20	19	12	4	14	13
Sturdy (E)	29	9	31	32	25	26	15
A93-552019	30	18	8	5	21	23	7
A93-552024	5	23	22	31	24	8	2
A93-552027	27	16	16	30	9	21	16
A93-552028	11	6	7	4	29	19	1
A93-552032	21	24	20	3	20	13	14
A93-554027	9	4	24	28	10	3	3
A93-554028	3	2	14	23	19	28	22
A93-554040	25	3	4	2	2	7	7
A93-554041	26	11	3	7	7	17	10
A93-554053	2	1	5	20	13	5	20
A93-555029	13	14	1	25	6	32	4
A93-652031	16	30	22	9	23	25	12
A93-654020	8	15	12	15	3	27	9
A93-654042	4	26	16	17	30	15	24
U93-2106	32	33	26	26	32	33	23
U93-2110	6	5	27	10	15	16	33
U93-2116	19	19	30	21	17	12	26
U93-2119	22	6	32	8	14	22	17
U93-2132	15	31	33	33	16	30	30
U93-2133	20	17	18	16	28	18	5
U93-2209	12	6	15	18	1	1	26
U93-2225	31	27	24	14	32	29	20
U93-2312	23	27	28	13	22	4	28
U93-2334	24	32	6	18	26	24	28
U93-2412	1	29	2	21	7	2	19
U93-2505	14	22	21	29	12	31	31
U93-2508	28	20	10	27	10	20	32
U93-2530	7	12	9	5	27	11	11
U93-2737	18	9	13	24	18	6	25

PRELIMINARY TEST IIA, 1994

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	4.2	4		4	7	-1
IA2008 (BSR)	0.5	-2		2	0	-3
Kenwood 94 (II)	09/15	09/13		09/10	09/11	09/26
Sturdy (E)	-1.8	-1		-4	-3	-9
A93-552019	0.4	-2		-1	1	3
A93-552024	-1.6	-2		-1	-1	-4
A93-552027	-1.1	-2		-3	-1	-6
A93-552028	0.9	0		0	0	2
A93-552032	-1.2	-1		0	0	-8
A93-554027	-0.9	0		-1	0	-6
A93-554028	-0.3	0		1	0	-6
A93-554040	2.2	2		1	1	2
A93-554041	-0.6	0		-1	-1	-2
A93-554053	0.2	0		5	2	-7
A93-555029	0.3	1		3	1	-6
A93-652031	1.1	1		7	3	-6
A93-654020	1.9	2		3	3	-3
A93-654042	2.7	2		7	7	-6
U93-2106	1.5	0		4	2	1
U93-2110	4.1	3		6	5	-1
U93-2116	3.2	4		4	3	-5
U93-2119	1.4	2		1	3	-7
U93-2132	-1.9	-2		-1	2	-9
U93-2133	5.1	4		7	10	2
U93-2209	4.6	6		6	9	-4
U93-2225	5.7	7		6	6	3
U93-2312	0.5	0		3	2	-5
U93-2334	5.4	5		7	9	-1
U93-2412	7.5	7		10	13	5
U93-2505	5.4	4		6	11	4
U93-2508	0.0	0		2	1	-4
U93-2530	4.5	4		5	10	1
U93-2737	3.9	0		7	7	1
Date Planted	05/16	05/18		05/19	05/20	05/16
Days to Mature	122.3	118		114	114	133

PRELIMINARY TEST IIA, 1994

MATURITY (date)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	3	3		7	3	4	8
IA2008 (BSR)	-1	0		0	-1	-1	11
Kenwood 94 (II)	09/10	09/16		09/11	09/15	09/10	10/03
Sturdy (E)	-1	-1		-1	-1	1	2
A93-552019	-1	0		2	2	-2	2
A93-552024	0	1		-1	-1	-2	-5
A93-552027	0	1		-1	-1	0	2
A93-552028	1	2		2	1	-1	2
A93-552032	0	0		-1	-1	1	-2
A93-554027	1	0		0	-1	1	-3
A93-554028	1	0		0	0	1	0
A93-554040	3	4		2	1	2	4
A93-554041	-1	-1		-1	-1	2	0
A93-554053	1	0		-1	0	1	1
A93-555029	1	-1		1	0	-1	4
A93-652031	2	2		3	1	-2	0
A93-654020	1	4		2	1	2	4
A93-654042	3	5		3	1	3	2
U93-2106	2	1		2	1	0	2
U93-2110	3	7		4	3	4	7
U93-2116	1	8		3	1	4	9
U93-2119	2	5		1	1	4	2
U93-2132	-1	-1		0	-1	-1	-5
U93-2133	6	5		5	5	4	3
U93-2209	2	6		4	3	3	11
U93-2225	3	9		5	5	4	9
U93-2312	2	2		1	1	0	-1
U93-2334	4	5		5	4	6	10
U93-2412	5	7		6	5	7	10
U93-2505	3	6		5	3	6	6
U93-2508	1	1		1	-1	0	-1
U93-2530	3	6		4	2	4	6
U93-2737	2	6		2	2	4	8
Date Planted	05/19	05/24		05/10	05/13	05/04	05/19
Days to Mature	114	115		124	125	129	137

PRELIMINARY TEST IIA, 1994

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	1.6	2.3	1.3	1.0	2.5	2.5
IA2008 (BSR)	1.9	3.0	2.5	1.0	3.3	2.0
Kenwood 94 (II)	2.3	2.5	1.5	1.0	4.0	4.0
Sturdy (E)	1.8	1.9	2.0	1.0	2.8	2.5
A93-552019	1.5	1.5	1.3	1.0	2.3	2.5
A93-552024	2.3	3.0	2.8	1.0	3.5	3.5
A93-552027	1.5	1.5	1.6	1.0	2.0	2.5
A93-552028	1.9	1.7	1.3	1.0	3.3	4.0
A93-552032	2.7	3.0	3.3	1.0	3.8	3.5
A93-554027	1.7	2.1	1.4	1.0	2.8	2.0
A93-554028	1.9	2.2	1.7	1.0	3.3	3.5
A93-554040	1.7	1.7	1.3	1.0	2.3	2.5
A93-554041	1.6	1.4	1.2	1.0	2.0	2.5
A93-554053	1.8	2.1	1.5	1.0	3.5	2.5
A93-555029	1.8	2.3	2.5	1.0	3.0	2.5
A93-652031	2.0	2.6	1.9	1.0	3.0	2.0
A93-654020	1.5	1.5	1.7	1.0	2.3	2.0
A93-654042	1.8	1.6	1.6	1.0	2.8	2.5
U93-2106	2.3	2.5	2.8	1.0	3.3	4.0
U93-2110	2.4	2.0	3.0	1.0	3.5	4.0
U93-2116	2.7	3.3	3.5	1.0	4.0	4.0
U93-2119	2.5	3.0	4.0	1.0	3.3	3.5
U93-2132	2.2	3.3	2.4	1.0	3.5	4.0
U93-2133	1.6	1.5	1.3	1.0	2.3	3.0
U93-2209	2.5	3.0	4.0	1.0	3.5	4.0
U93-2225	2.6	3.0	2.7	1.0	3.5	3.5
U93-2312	2.2	2.5	2.3	1.0	3.5	3.5
U93-2334	2.3	2.3	3.3	1.0	3.0	4.0
U93-2412	2.1	2.0	2.4	1.0	3.0	3.5
U93-2505	2.3	2.1	2.0	1.0	3.3	3.0
U93-2508	1.5	1.6	1.4	1.0	2.0	2.5
U93-2530	1.7	1.8	1.6	1.0	2.0	2.0
U93-2737	1.7	2.0	1.4	1.0	2.3	2.5

PRELIMINARY TEST IIA, 1994

LODGING (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.0	1.0	1.0	1.0	1.0	1.0	3.0
IA2008 (BSR)	1.5	1.0	1.0	2.0	1.0	1.0	3.3
Kenwood 94 (II)	1.5	1.0	2.5	2.3	1.5	2.0	3.5
Sturdy (E)	1.0	1.0	2.5	1.0	1.0	1.0	4.0
A93-552019	1.0	1.0	1.0	1.0	1.5	1.0	3.0
A93-552024	1.0	1.5	2.0	1.7	3.0	1.0	3.8
A93-552027	1.0	1.0	1.5	1.0	1.0	1.0	3.3
A93-552028	1.0	1.0	2.5	1.5	1.5	1.0	3.3
A93-552032	1.0	2.0	2.5	3.8	2.5	2.0	4.0
A93-554027	1.0	1.0	1.0	1.0	1.0	2.0	3.5
A93-554028	1.0	1.0	2.0	1.0	1.0	2.0	3.0
A93-554040	1.0	1.5	2.0	1.1	1.0	2.0	2.5
A93-554041	1.0	1.0	2.0	1.0	1.0	1.0	4.0
A93-554053	1.0	1.0	2.5	1.0	1.0	2.0	3.0
A93-555029	1.0	1.0	1.5	1.0	1.0	1.0	3.3
A93-652031	1.5	1.0	2.5	1.5	1.0	2.0	3.5
A93-654020	1.0	1.0	1.0	1.0	1.0	1.0	3.0
A93-654042	1.5	1.5	1.0	1.2	1.5	2.0	3.5
U93-2106	2.0	1.5	1.5	1.7	2.5	1.0	3.5
U93-2110	1.5	1.5	2.5	1.7	2.0	2.0	3.8
U93-2116	2.0	2.5	2.0	2.5	2.0	2.0	4.0
U93-2119	2.0	2.0	2.5	1.1	1.5	2.0	4.0
U93-2132	1.0	1.0	3.0	1.2	1.5	1.0	4.0
U93-2133	1.5	1.5	1.0	1.0	1.0	1.0	2.5
U93-2209	2.0	1.5	3.5	1.1	1.0	2.0	3.8
U93-2225	2.5	3.0	3.5	2.0	2.0	1.0	3.8
U93-2312	1.5	1.0	2.0	1.7	2.0	2.0	3.8
U93-2334	1.5	1.5	2.5	1.5	2.0	2.0	3.3
U93-2412	1.5	1.5	2.0	1.3	1.5	2.0	3.3
U93-2505	2.0	2.5	3.0	1.7	1.5	2.0	4.0
U93-2508	1.5	1.0	1.0	1.2	1.0	1.0	3.3
U93-2530	2.0	1.5	1.5	1.2	1.0	2.0	3.0
U93-2737	1.0	1.5	1.5	1.1	1.0	1.0	3.5

PRELIMINARY TEST IIA, 1994

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	37	42	41	32	37	39
IA2008 (BSR)	38	46	41	36	38	22
Kenwood 94 (II)	36	38	38	33	36	38
Sturdy (E)	36	42	38	32	37	35
A93-552019	37	40	41	32	39	39
A93-552024	37	42	42	33	39	41
A93-552027	35	39	38	30	35	37
A93-552028	35	36	36	31	35	38
A93-552032	39	43	43	38	39	37
A93-554027	37	42	40	32	38	34
A93-554028	36	40	38	31	36	37
A93-554040	36	40	39	33	35	39
A93-554041	33	36	35	27	32	35
A93-554053	35	38	36	32	37	35
A93-555029	36	41	39	32	35	33
A93-652031	40	45	42	39	42	38
A93-654020	38	45	40	34	39	38
A93-654042	37	43	40	32	37	34
U93-2106	39	42	40	38	38	43
U93-2110	41	45	43	37	43	46
U93-2116	40	45	44	36	40	43
U93-2119	39	43	43	36	41	39
U93-2132	35	43	37	32	37	38
U93-2133	35	39	38	34	35	38
U93-2209	41	45	44	38	43	44
U93-2225	40	46	44	39	43	38
U93-2312	39	43	42	37	43	42
U93-2334	39	41	40	35	40	41
U93-2412	42	45	45	40	47	45
U93-2505	41	42	44	39	45	43
U93-2508	37	40	42	34	38	42
U93-2530	38	40	40	35	40	38
U93-2737	36	40	41	31	36	34

PRELIMINARY TEST IIA, 1994

PLANT HEIGHT (inches)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	34	41	32	31	35	39	43
IA2008 (BSR)	38	43	31	33	39	40	43
Kenwood 94 (II)	34	37	29	31	36	37	42
Sturdy (E)	36	40	31	29	34	40	39
A93-552019	38	40	29	30	37	36	40
A93-552024	32	39	33	29	41	37	39
A93-552027	32	36	28	27	33	39	41
A93-552028	38	36	27	30	31	40	42
A93-552032	44	44	30	30	38	42	44
A93-554027	41	42	29	29	34	41	43
A93-554028	37	36	28	28	35	40	40
A93-554040	34	37	27	31	36	43	41
A93-554041	31	34	27	28	32	36	39
A93-554053	34	37	30	29	34	35	40
A93-555029	38	39	31	26	35	40	40
A93-652031	43	40	35	31	40	40	44
A93-654020	40	39	31	32	37	37	43
A93-654042	41	40	30	33	32	42	41
U93-2106	41	41	30	35	40	43	42
U93-2110	42	45	37	33	44	43	39
U93-2116	40	47	31	33	40	39	42
U93-2119	40	43	34	36	41	39	35
U93-2132	37	38	30	30	36	37	28
U93-2133	34	34	26	31	33	37	36
U93-2209	40	46	36	34	38	42	44
U93-2225	44	40	34	33	41	41	42
U93-2312	36	42	34	36	40	40	32
U93-2334	37	37	34	33	39	47	43
U93-2412	43	42	38	34	42	43	43
U93-2505	40	44	36	37	42	42	39
U93-2508	38	39	30	32	37	40	31
U93-2530	39	46	31	30	37	38	39
U93-2737	38	41	27	32	34	38	41

PRELIMINARY TEST IIA, 1994

SEED QUALITY (score)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	1.7	2.0	1.5	1.5	1.5	1.5
IA2008 (BSR)	1.7	1.5	1.5	1.5	1.0	1.0
Kenwood 94 (II)	1.6	1.5	1.5	1.5	1.0	1.0
Sturdy (E)	2.0	1.5	1.5	1.8	1.0	1.5
A93-552019	2.0	1.5	1.5	1.5	1.0	2.0
A93-552024	1.8	1.5	2.0	1.8	1.0	1.0
A93-552027	1.6	1.0	1.5	1.5	1.0	1.0
A93-552028	1.8	1.5	1.5	1.8	1.0	2.0
A93-552032	1.8	1.0	1.0	1.5	1.5	1.5
A93-554027	1.8	1.0	2.0	1.8	1.0	1.0
A93-554028	2.0	2.0	1.5	1.5	1.5	1.0
A93-554040	1.8	2.5	1.0	1.5	1.0	1.0
A93-554041	1.7	2.0	1.5	1.5	1.0	1.0
A93-554053	2.2	2.5	2.0	1.8	1.5	2.0
A93-555029	1.8	1.5	1.5	1.5	1.0	1.0
A93-652031	1.8	2.0	2.0	1.8	1.0	1.5
A93-654020	1.7	2.0	2.0	1.5	1.5	1.5
A93-654042	1.9	2.0	2.5	2.0	1.5	1.5
U93-2106	1.7	2.0	1.5	2.0	1.0	1.0
U93-2110	1.9	2.0	2.0	1.5	1.0	1.0
U93-2116	2.3	3.5	2.0	2.0	1.0	1.5
U93-2119	1.8	2.5	1.5	1.8	1.0	1.0
U93-2132	1.9	2.5	1.5	1.5	1.5	1.5
U93-2133	1.6	2.5	1.0	1.8	1.0	1.0
U93-2209	1.5	2.0	1.5	1.5	1.0	1.5
U93-2225	2.0	2.0	2.0	1.8	1.5	2.0
U93-2312	2.0	2.0	2.0	1.5	1.0	1.5
U93-2334	1.8	2.0	2.5	1.8	1.0	1.0
U93-2412	1.8	1.5	2.0	2.0	1.0	1.5
U93-2505	1.9	1.5	1.5	1.5	1.5	1.5
U93-2508	1.9	2.0	2.0	1.5	1.0	1.0
U93-2530	2.0	2.5	2.5	1.5	1.0	1.5
U93-2737	1.9	2.5	2.0	1.5	1.0	1.5

PRELIMINARY TEST IIA, 1994

SEED QUALITY (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	2.0	2.0	2.0	1.0	1.0	3.0	1.8
IA2008 (BSR)	2.0	2.0	1.0	1.0	2.0	3.0	3.3
Kenwood 94 (II)	2.0	2.0	1.0	1.0	2.0	3.0	1.8
Sturdy (E)	2.5	2.0	3.0	1.0	2.0	4.0	2.5
A93-552019	2.5	2.0	2.0	1.0	3.0	4.0	2.0
A93-552024	3.0	2.0	1.0	2.0	2.0	2.0	2.5
A93-552027	2.0	2.0	1.0	2.0	2.5	2.0	2.0
A93-552028	2.0	2.0	1.5	1.0	2.0	3.0	2.3
A93-552032	2.0	2.0	2.0	1.0	2.0	4.0	1.8
A93-554027	2.0	2.0	1.0	1.0	2.5	4.0	1.8
A93-554028	2.5	2.0	1.5	1.0	2.0	4.0	3.3
A93-554040	2.0	2.0	1.0	1.0	2.5	3.0	2.5
A93-554041	2.5	2.0	1.0	1.0	2.0	3.0	1.8
A93-554053	2.5	2.0	1.5	1.0	2.0	4.0	3.8
A93-555029	2.0	2.0	2.0	1.0	2.5	3.0	2.8
A93-652031	2.0	2.0	1.0	1.0	2.5	3.0	2.0
A93-654020	1.0	2.0	1.0	1.0	2.0	3.0	1.8
A93-654042	2.5	2.0	1.0	1.0	2.0	3.0	2.3
U93-2106	2.5	1.0	2.0	1.0	2.0	2.0	2.0
U93-2110	2.0	2.0	3.0	1.0	2.0	3.0	2.8
U93-2116	2.5	2.0	2.5	2.0	1.5	4.0	3.0
U93-2119	1.0	1.5	1.5	1.0	1.5	4.0	3.3
U93-2132	2.5	2.0	2.0	1.0	2.0	3.0	2.0
U93-2133	2.0	1.0	1.0	1.0	1.5	3.0	2.3
U93-2209	1.5	1.0	1.5	1.0	1.5	2.0	2.0
U93-2225	2.0	1.5	1.0	1.0	3.0	4.0	2.3
U93-2312	2.5	2.0	2.5	2.0	1.5	3.0	2.8
U93-2334	2.0	2.0	1.0	1.0	2.0	3.0	2.0
U93-2412	2.5	2.0	1.0	1.0	2.0	3.0	2.0
U93-2505	3.0	2.0	1.0	1.0	2.5	3.0	2.8
U93-2508	2.5	2.0	1.5	1.0	2.0	4.0	2.8
U93-2530	2.0	2.0	1.0	2.0	2.5	4.0	2.0
U93-2737	2.0	2.0	1.0	1.0	2.5	4.0	2.3

PRELIMINARY TEST IIA, 1994

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	18.4	19.2	17.8	17.9	19.8	16.5
IA2008 (BSR)	15.1	15.4	14.8	15.8	15.0	17.1
Kenwood 94 (II)	15.8	17.0	17.0	14.5	16.3	16.8
Sturdy (E)	18.2	19.2	17.8	17.7	17.6	15.1
A93-552019	17.9	18.4	16.8	16.8	16.4	20.5
A93-552024	17.2	18.0	16.6	14.9	16.5	18.6
A93-552027	18.1	19.0	18.2	16.1	18.0	19.3
A93-552028	18.4	18.8	19.1	15.4	18.2	20.6
A93-552032	14.5	14.4	14.4	12.7	14.4	15.8
A93-554027	19.2	21.2	19.8	17.2	19.7	15.2
A93-554028	18.1	18.7	17.6	16.7	16.5	18.2
A93-554040	18.0	19.4	19.0	15.8	16.9	19.5
A93-554041	18.6	18.8	19.2	16.5	18.2	21.0
A93-554053	18.4	19.0	18.1	17.6	17.0	19.0
A93-555029	19.8	21.5	19.6	20.2	17.9	20.2
A93-652031	16.5	17.0	17.4	16.7	16.7	16.6
A93-654020	16.8	16.0	16.0	16.2	17.2	19.4
A93-654042	19.6	20.4	19.3	19.4	19.1	19.6
U93-2106	18.3	18.4	17.2	18.7	17.5	20.4
U93-2110	15.6	16.4	15.2	16.3	16.7	15.1
U93-2116	17.6	18.2	18.0	17.4	17.9	17.0
U93-2119	17.2	18.0	16.2	16.4	17.0	17.1
U93-2132	20.2	21.4	19.7	18.7	21.0	20.4
U93-2133	15.2	16.0	14.6	14.3	15.3	15.5
U93-2209	16.0	16.8	14.8	15.4	15.6	14.8
U93-2225	18.7	20.3	19.8	16.2	20.0	18.1
U93-2312	18.1	19.2	17.4	17.4	18.0	18.6
U93-2334	18.6	19.0	19.7	17.0	17.8	17.1
U93-2412	19.2	19.1	19.4	19.8	19.1	19.1
U93-2505	19.1	19.6	18.8	17.7	19.0	19.9
U93-2508	17.8	17.9	18.6	17.5	17.6	15.8
U93-2530	16.6	17.0	16.2	17.6	16.9	16.9
U93-2737	17.2	18.2	17.2	17.1	16.9	16.5

PRELIMINARY TEST IIA, 1994

SEED SIZE (g\100)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	16.6	19.9	17.5	19.5		17.0	21.0
IA2008 (BSR)	11.0	17.1	15.0	16.1		13.0	16.1
Kenwood 94 (II)	12.6	17.3	15.5	16.4		15.0	15.8
Sturdy (E)	14.9	20.5	18.0	21.2		18.0	20.0
A93-552019	15.1	19.8	17.5	19.2		17.0	19.7
A93-552024	16.3	19.5	17.0	18.3		15.0	18.6
A93-552027	14.9	20.0	17.5	19.3		17.0	20.2
A93-552028	15.4	19.6	17.0	18.7		18.0	21.6
A93-552032	13.9	15.7	13.5	15.6		13.0	15.9
A93-554027	17.6	21.6	18.5	20.9		19.0	20.2
A93-554028	18.5	19.4	17.0	18.5		17.0	20.6
A93-554040	14.7	20.0	17.0	18.1		17.0	20.5
A93-554041	17.6	20.3	17.5	18.7		16.0	20.4
A93-554053	18.8	19.9	17.5	18.8		16.0	20.3
A93-555029	17.3	21.2	18.5	20.9		18.0	22.0
A93-652031	15.8	18.1	15.0	16.0		14.0	17.8
A93-654020	16.3	18.5	15.5	16.5		14.0	19.1
A93-654042	19.9	20.9	18.0	19.8		18.0	20.7
U93-2106	17.5	19.5	17.0	18.6		17.0	19.1
U93-2110	13.0	17.2	14.5	17.0		15.0	15.1
U93-2116	15.9	20.5	16.0	19.4		14.0	18.9
U93-2119	16.2	19.1	16.5	19.4		15.0	17.9
U93-2132	19.5	21.5	19.0	20.8		19.0	20.9
U93-2133	14.0	16.7	14.0	16.5		13.0	17.5
U93-2209	16.1	17.7	15.5	17.2		15.0	16.8
U93-2225	15.2	20.5	17.5	19.7		18.0	20.1
U93-2312	15.6	19.3	17.5	19.3		18.0	18.8
U93-2334	18.6	19.5	16.5	18.9		19.0	21.4
U93-2412	17.4	20.8	17.0	19.1		20.0	20.4
U93-2505	17.2	20.7	17.0	18.5		18.0	23.7
U93-2508	18.2	18.7	17.5	18.2		17.0	18.9
U93-2530	15.4	17.6	15.0	16.1		16.0	18.2
U93-2737	17.6	18.6	15.5	17.9		16.0	17.5

PRELIMINARY TEST IIA, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA2007 (L)	41.0	40.8	38.9	42.2	41.9
IA2008 (BSR)	39.5	40.2	38.1	40.1	39.6
Kenwood 94 (II)	39.8	40.8	36.4	40.6	41.2
Sturdy (E)	40.5	42.6	36.5	41.8	41.2
A93-552019	40.0	39.9	38.4	40.9	40.7
A93-552024	40.5	41.6	38.4	41.0	40.9
A93-552027	39.7	39.4	38.0	40.1	41.1
A93-552028	39.9	40.5	37.4	41.2	40.5
A93-552032	39.4	40.1	36.5	40.2	40.6
A93-554027	39.7	40.8	36.4	40.4	41.0
A93-554028	40.4	42.0	37.0	41.3	41.4
A93-554040	41.7	41.8	39.9	42.7	42.2
A93-554041	40.7	40.6	39.6	41.2	41.4
A93-554053	40.5	41.1	38.5	41.5	41.0
A93-555029	41.7	41.8	40.7	42.1	42.0
A93-652031	41.8	41.6	42.1	41.8	41.8
A93-654020	38.9	38.4	39.1	39.4	38.8
A93-654042	41.9	42.3	41.0	41.6	42.6
U93-2106	42.5	43.0	40.7	43.4	42.8
U93-2110	40.3	40.6	39.5	40.7	40.5
U93-2116	40.1	40.7	38.4	40.3	40.9
U93-2119	41.5	42.3	38.5	41.7	43.4
U93-2132	40.3	40.6	38.4	40.5	41.8
U93-2133	41.8	42.2	39.7	42.6	42.7
U93-2209	39.7	40.4	36.9	41.1	40.5
U93-2225	41.3	41.3	40.0	41.3	42.4
U93-2312	41.5	42.1	39.8	41.8	42.1
U93-2334	42.0	42.1	40.6	42.2	43.0
U93-2412	41.8	41.0	40.6	42.5	42.9
U93-2505	42.0	40.9	42.6	42.2	42.1
U93-2508	40.5	40.4	40.7	40.4	40.4
U93-2530	41.4	40.9	41.1	41.3	42.2
U93-2737	40.6	41.1	38.9	41.2	41.3

PRELIMINARY TEST IIA, 1994

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA2007 (L)	20.6	19.9	21.3	20.9	20.1
IA2008 (BSR)	20.4	19.6	21.0	21.0	20.1
Kenwood 94 (II)	20.4	19.6	22.0	20.3	19.8
Sturdy (E)	20.6	19.8	22.0	20.4	20.0
A93-552019	21.0	20.6	21.8	20.6	20.8
A93-552024	20.7	20.1	21.5	20.7	20.6
A93-552027	20.5	19.5	22.1	20.3	19.9
A93-552028	20.4	20.0	21.7	20.3	19.5
A93-552032	20.6	20.7	21.5	19.8	20.2
A93-554027	20.5	20.2	22.0	19.6	20.1
A93-554028	20.6	19.9	21.9	20.6	20.1
A93-554040	20.6	19.7	21.6	20.7	20.2
A93-554041	20.0	19.6	20.6	20.3	19.6
A93-554053	20.5	19.6	21.7	20.8	20.0
A93-555029	20.4	19.9	21.2	20.1	20.4
A93-652031	19.9	19.4	20.5	19.8	19.7
A93-654020	20.2	19.2	21.1	20.3	20.0
A93-654042	20.5	20.3	21.1	20.4	20.3
U93-2106	20.4	19.5	21.6	20.3	20.1
U93-2110	20.2	19.6	21.2	20.6	19.4
U93-2116	20.1	19.6	21.0	19.8	19.8
U93-2119	20.6	19.6	22.1	20.8	20.0
U93-2132	20.6	20.1	21.7	20.4	20.0
U93-2133	20.0	18.8	21.5	19.8	19.9
U93-2209	20.3	19.7	21.4	20.2	19.8
U93-2225	20.0	19.4	20.9	20.0	19.8
U93-2312	20.2	19.6	21.1	20.0	19.9
U93-2334	20.6	19.9	21.5	20.7	20.3
U93-2412	20.4	20.2	21.6	20.3	19.5
U93-2505	20.5	20.1	20.7	20.8	20.4
U93-2508	20.5	19.7	21.0	20.9	20.2
U93-2530	20.1	19.8	20.8	20.5	19.3
U93-2737	20.8	20.1	21.7	21.4	20.0

PRELIMINARY TEST IIB, 1994

Strain	Parentage	Generation Composited	Unique Traits
IA2007 (L)	Pride B152 x A80-244003	F5	
Kenwood 94 (II)	Kenwood^4 x Elgin 87	BC4 F4	Rps1-k
Sturdy (E)	M70-127 x Century	F5	
E93001	Northrup King S23-12 x Elgin 87	F5	
E93002	Elgin 87 x E86367	F5	
E93018	A85-293032 x Dimon	F5	
E93023	A85-293032 x E86368	F5	
E93037	A85-293032 x E86248	F5	
E93044	OT86-5 x HM8635	F5	
E93050	HM8625 x HM8635	F5	
E93067	A86-103027 x Conrad	F5	
HF92-080	HS84-6224 x Resnik	F5	
HF92-092	Elgin 87 x Conrad	F5	
LN89-3264	Hobbit 87 x Elgin 87	F5	
LN90-4187	Burlison x Asgrow A3733	F5	
LN91-4240	LNX8509 x Chamberlain	F5	
LN91-4616	LNX8511 x Pella 86	F5	
LN91-5192	LNX8511 x Chamberlain	F5	
LN91-5218	LNX8511 x Chamberlain	F5	
LN91-5782	LNX8519 x Chamberlain	F5	
LN91-5895	LNX8519 x Chamberlain	F5	
M90-1199	E84159 x Glenwood	F4	Rps1
M90-1262	Sturdy x Elgin 87	F4	Rps1-k
M90-1459	Sturdy x Elgin 87	F5	Rps1-k
M90-1610	Evans x Conrad	F5	Rps1
M90-1742	Parker x Glenwood	F5	Rps1
ORC 9306	A85-291001 x Elgin 87	F5	
ORC 9308	T8508 x 9292	F5	
SL92-1153M	Kasota x Kenwood	F5	
SL92-1174M	Sturdy x Kato	F5	
SL92-1205M	M86-714 x Kato	F5	
SL92-1225M	A86-204022 x Kato	F5	
SL92-1227M	A86-204022 x Kato	F5	

PRELIMINARY TEST IIB, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR - Boone Plant n %	BSR - Boone Stem n %
IA2007 (L)	PTBIYBrI	3.8	1	95.0	59.0
Kenwood 94 (II)	PTBIYBlI	4.3	1	85.0	56.7
Sturdy (E)	PGBDYIbI	3.2	1	85.0	58.0
E93001	PGBDYYI	3.8	1	80.0	35.9
E93002	PTTIYBlI	3.3	1	100.0	72.5
E93018	WTBIYBlI	4.0	1	75.0	46.9
E93023	WTBIYBlI	3.3	1	80.0	36.0
E93037	PTBDYBrI	3.3	1	60.0	37.8
E93044	WGBIYYI	4.3	1	95.0	39.5
E93050	PGBDYIbI	3.8	1	75.0	28.6
E93067	P+WBSYBrI	4.2	1	100.0	68.7
HF92-080	P+WTTIYBlI	4.3	1	100.0	51.3
HF92-092	PG+TTDYYI	4.7	3	95.0	51.3
LN89-3264	WTBSYBlI	3.0	1	55.0	20.0
LN90-4187	PTTDYBlI	3.2	1	75.0	24.7
LN91-4240	PTBDYBlI	4.2	1	30.0	6.7
LN91-4616	WGTDYBfI	4.3	1	75.0	37.0
LN91-5192	PGBSYIbI	3.2	1	40.0	7.3
LN91-5218	WTBSYBlI	3.7	1	65.0	16.9
LN91-5782	PTBIYBlI	4.2	1	80.0	35.8
LN91-5895	PTBSYBlI	3.7	2	85.0	22.2
M90-1199	WGTDYBrI	3.8	1	70.0	42.0
M90-1262	PGBIYIbI	3.5	1	80.0	42.6
M90-1459	PGBDYIbI	3.5	1	80.0	51.2
M90-1610	WGTDYBfI	4.3	1	95.0	48.5
M90-1742	PGBDYBfI	3.5	1	55.0	14.3
ORC 9306	PTBDYBlI	4.3	1	80.0	44.7
ORC 9308	PTBDYBrI	3.2	2	95.0	68.5
SL92-1153M	PTBDYBlI	3.0	1	90.0	60.7
SL92-1174M	PGBDYIbI	2.7	1	75.0	38.8
SL92-1205M	PTBDYBrI	2.8	1	100.0	78.9
SL92-1225M	PTBDYBlI	3.7	1	85.0	62.8
SL92-1227M	PGBSYIbI	3.5	1	95.0	72.7

PRELIMINARY TEST IIB, 1994

DISEASE DATA

Strain	PR Custar Root Rot Race 25	PR Ames Race 4	PR Lafayette Race 7	PS Laf. a %
IA2007 (L)	3.7	S	R	6
Kenwood 94 (II)	3.8	R	R	31
Sturdy (E)	4.8	S	S	25
E93001	4.2	H	H	23
E93002	3.7	R	R	37
E93018	5.4	S	H	30
E93023	4.3	S	S	22
E93037	4.4	S	S	25
E93044	5.4	S	S	31
E93050	3.6	R	H	3
E93067	4.5	S	S	6
HF92-080	3.6	R	R	13
HF92-092	3.4	S	R	17
LN89-3264	4.1	H	R	11
LN90-4187	3.7	R	R	6
LN91-4240	4.2	S	S	12
LN91-4616	3.9	H	R	21
LN91-5192	3.6	S	S	7
LN91-5218	4.7	S	S	14
LN91-5782	4.0	S	S	8
LN91-5895	4.2	S	S	3
M90-1199	4.8	S	S	46
M90-1262	4.9	S	S	25
M90-1459	4.4	S	S	46
M90-1610	4.3	S	S	27
M90-1742	4.6	S	S	42
ORC 9306	3.9	H	R	11
ORC 9308	3.9	S	H	24
SL92-1153M	5.3	S	S	24
SL92-1174M	4.9	S	H	8
SL92-1205M	7.2	S	S	7
SL92-1225M	4.2	S	R	12
SL92-1227M	4.5	S	R	18

PRELIMINARY TEST IIB, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 10 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 12 Score	Seed Size 11 g/100	Composition Protein 4 %	 Oil 4 %
IA2007 (L)	57.7	9	4.4	1.6	37	2.0	18.6	41.2	20.6
Kenwood 94 (II)	56.9	11	09/15	2.3	36	2.0	16.6	40.1	20.3
Sturdy (E)	53.7	26	-1.1	1.9	36	2.1	18.6	40.7	20.3
E93001	58.5	6	1.9	1.7	38	2.2	19.1	40.0	20.4
E93002	52.9	29	1.0	1.8	34	2.1	19.7	40.3	20.8
E93018	56.4	16	0.7	1.4	32	1.8	18.2	40.0	20.1
E93023	52.8	30	2.5	1.4	34	2.1	18.3	39.6	20.7
E93037	55.9	17	-0.5	1.7	35	1.9	16.0	40.1	20.5
E93044	51.9	31	3.9	1.8	39	1.5	18.2	41.2	20.7
E93050	58.4	7	3.7	1.6	37	2.0	21.8	41.4	20.3
E93067	55.2	20	1.4	1.7	36	1.6	17.0	41.2	19.8
HF92-080	56.9	11	7.5	2.1	38	1.4	17.8	41.0	20.4
HF92-092	55.5	19	7.4	2.6	40	2.1	18.8	41.4	19.8
LN89-3264	60.6	2	3.9	1.5	34	1.6	19.5	39.8	20.7
LN90-4187	59.8	4	3.9	1.5	34	1.8	19.4	43.0	19.9
LN91-4240	58.8	5	5.1	2.2	42	1.7	18.9	42.1	20.3
LN91-4616	57.8	8	4.1	1.5	33	1.5	15.8	41.6	20.5
LN91-5192	57.2	10	8.7	2.3	43	1.9	17.4	42.1	20.2
LN91-5218	56.6	14	6.8	2.1	41	1.7	19.5	43.1	19.7
LN91-5782	55.9	17	6.3	2.0	37	2.0	19.8	44.2	20.0
LN91-5895	61.3	1	8.7	2.6	44	1.8	17.9	41.8	20.4
M90-1199	53.7	26	-0.5	2.4	37	1.6	17.7	41.5	20.4
M90-1262	54.3	23	1.3	2.2	39	2.1	19.4	40.9	20.7
M90-1459	56.6	14	2.1	2.0	36	2.0	19.0	40.4	20.8
M90-1610	51.6	32	0.6	2.3	34	2.0	16.7	40.9	20.1
M90-1742	49.3	33	-2.4	2.1	37	1.7	18.1	42.3	20.7
ORC 9306	56.8	13	1.6	2.3	35	1.8	17.7	40.7	20.3
ORC 9308	60.4	3	2.0	2.0	39	1.7	17.2	40.9	20.0
SL92-1153M	54.3	23	0.6	2.5	38	1.8	15.5	40.3	20.6
SL92-1174M	54.6	21	-2.3	2.1	37	1.8	18.4	41.4	20.2
SL92-1205M	53.4	28	0.2	2.3	40	1.9	19.6	42.2	20.5
SL92-1225M	54.6	21	5.2	2.4	39	1.7	21.2	42.1	20.3
SL92-1227M	54.2	25	4.3	2.5	38	2.3	21.0	42.7	20.1

122.3 Days After Planting

PRELIMINARY TEST IIB, 1994

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	57.7	61.6	51.2	58.6	59.7	53.9
Kenwood 94 (II)	56.9	69.0	52.6	54.8	63.3	55.3
Sturdy (E)	53.7	69.1	51.3	46.6	56.0	46.9
E93001	58.5	69.9	52.2	64.0	59.8	59.4
E93002	52.9	64.2	45.4	52.1	54.4	47.5
E93018	56.4	70.8	60.8	50.2	57.1	53.0
E93023	52.8	67.6	53.1	52.1	55.6	33.1
E93037	55.9	71.1	50.8	46.5	58.6	53.8
E93044	51.9	60.0	46.0	50.0	59.0	49.7
E93050	58.4	65.4	54.4	54.5	64.2	54.7
E93067	55.2	62.0	55.1	52.3	60.4	52.6
HF92-080	56.9	65.9	51.2	56.5	67.2	48.9
HF92-092	55.5	66.0	44.2	54.8	59.5	49.0
LN89-3264	60.6	69.1	60.8	53.1	67.1	59.6
LN90-4187	59.8	68.4	56.6	64.3	68.3	62.3
LN91-4240	58.8	65.9	56.7	60.0	69.4	65.9
LN91-4616	57.8	72.5	51.1	58.4	61.6	48.7
LN91-5192	57.2	58.0	62.2	63.2	71.9	60.0
LN91-5218	56.6	57.0	51.4	60.5	67.3	66.0
LN91-5782	55.9	66.3	47.8	65.0	54.0	49.7
LN91-5895	61.3	66.0	54.2	71.1	71.2	67.5
M90-1199	53.7	60.4	56.1	51.6	63.1	46.3
M90-1262	54.3	65.8	48.7	46.7	63.0	53.1
M90-1459	56.6	69.6	52.9	51.8	55.2	51.7
M90-1610	51.6	66.9	53.6	47.8	54.6	47.1
M90-1742	49.3	59.0	47.5	36.6	48.5	47.0
ORC 9306	56.8	60.5	53.4	60.4	62.0	53.5
ORC 9308	60.4	64.6	56.1	59.5	66.9	57.6
SL92-1153M	54.3	65.3	50.5	48.2	60.7	50.7
SL92-1174M	54.6	68.9	50.1	39.3	56.6	45.1
SL92-1205M	53.4	63.2	49.4	53.3	66.7	39.8
SL92-1225M	54.6	68.4	44.3	54.7	64.2	42.2
SL92-1227M	54.2	64.1	46.9	55.0	60.7	38.4
C.V. (%)		4.8	6.6	9.7	6.5	14.2
L.S.D. (5%)		6.4	7.0	10.8	8.1	15.1
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 1994

YIELD (bu/a)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	56.6	55.3	46.1	69.2	71.4	51.7	57.7
Kenwood 94 (II)	59.4	56.8	44.0	67.8	63.3	42.5	53.6
Sturdy (E)	55.3	53.5	41.3	55.0	69.4	45.3	54.4
E93001	56.9	57.8	49.9	69.0	64.9	49.6	48.6
E93002	52.7	54.7	43.5	60.9	62.1	49.9	47.1
E93018	60.9	57.3	54.5	55.2	62.0	49.7	45.2
E93023	53.4	54.8	43.3	60.9	65.7	46.1	47.5
E93037	58.1	57.6	45.8	59.5	67.6	48.4	52.9
E93044	52.4	53.5	44.0	58.6	57.8	43.3	48.1
E93050	63.5	56.5	49.6	66.2	62.5	56.0	53.3
E93067	58.0	54.1	47.1	58.6	66.8	48.3	46.9
HF92-080	60.3	51.2	52.5	64.7	61.6	51.6	51.8
HF92-092	57.5	52.1	51.3	64.4	65.2	48.4	53.7
LN89-3264	63.9	58.2	56.3	64.9	65.0	52.5	56.7
LN90-4187	59.3	56.2	54.3	61.2	63.4	50.5	53.0
LN91-4240	60.5	52.3	50.2	56.9	62.4	50.2	55.4
LN91-4616	60.8	56.1	48.5	65.3	63.7	54.1	52.5
LN91-5192	55.8	50.7	52.8	62.6	59.1	55.0	35.0
LN91-5218	53.2	51.5	48.5	57.9	60.1	53.4	51.9
LN91-5782	62.1	56.4	47.0	53.0	62.4	53.3	53.9
LN91-5895	62.4	51.3	46.9	65.9	68.9	60.8	49.2
M90-1199	54.6	50.8	47.0	55.0	60.4	54.0	45.3
M90-1262	54.6	50.8	45.0	64.3	61.3	45.3	53.0
M90-1459	57.1	54.8	50.5	64.2	67.0	50.3	53.5
M90-1610	57.5	50.6	41.8	60.0	62.7	40.1	36.3
M90-1742	51.0	46.4	43.5	51.7	66.1	42.6	51.2
ORC 9306	58.7	54.3	47.9	62.5	61.9	51.0	55.1
ORC 9308	59.5	52.8	52.7	65.6	72.2	54.6	63.1
SL92-1153M	58.1	54.2	47.1	58.3	62.0	48.1	48.2
SL92-1174M	57.8	56.1	53.0	63.0	67.0	46.4	52.0
SL92-1205M	53.7	51.8	55.7	42.4	63.9	51.0	49.9
SL92-1225M	58.7	55.7	49.3	60.7	57.2	50.9	49.0
SL92-1227M	57.9	54.6	48.3	61.3	60.0	48.9	54.2
C.V. (%)	5.0	7.5	7.9	5.7	5.7	8.4	8.9
L.S.D. (5%)	8.2	11.7	7.6	7.0	7.4	7.1	9.3
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIB, 1994

YIELD RANK

Strain	Yield Rank	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	9	27	19	10	21	11
Kenwood 94 (II)	11	8	15	14	12	9
Sturdy (E)	26	6	18	30	27	27
E93001	6	4	16	4	20	7
E93002	29	23	31	21	31	24
E93018	16	3	2	25	25	15
E93023	30	12	13	21	28	33
E93037	17	2	22	31	24	12
E93044	31	30	30	26	23	20
E93050	7	20	9	17	10	10
E93067	20	26	8	20	19	16
HF92-080	11	17	19	12	6	22
HF92-092	19	15	33	14	22	21
LN89-3264	2	6	2	19	7	6
LN90-4187	4	10	5	3	4	4
LN91-4240	5	17	4	8	3	3
LN91-4616	8	1	21	11	16	23
LN91-5192	10	32	1	5	1	5
LN91-5218	14	33	17	6	5	2
LN91-5782	17	14	27	2	32	19
LN91-5895	1	15	10	1	2	1
M90-1199	26	29	6	24	13	28
M90-1262	23	19	26	29	14	14
M90-1459	14	5	14	23	29	17
M90-1610	32	13	11	28	30	25
M90-1742	33	31	28	33	33	26
ORC 9306	13	28	12	7	15	13
ORC 9308	3	22	6	9	8	8
SL92-1153M	23	21	23	27	17	18
SL92-1174M	21	9	24	32	26	29
SL92-1205M	28	25	25	18	9	31
SL92-1225M	21	10	32	16	10	30
SL92-1227M	25	24	29	13	17	32

PRELIMINARY TEST IIB, 1994

YIELD RANK

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	23	12	24	1	2	10	2
Kenwood 94 (II)	10	5	27	3	17	32	10
Sturdy (E)	25	20	33	29	3	29	6
E93001	22	2	12	2	13	20	24
E93002	31	15	29	18	22	18	28
E93018	5	4	3	28	23	19	31
E93023	29	14	31	18	10	27	27
E93037	14	3	25	22	5	22	15
E93044	32	20	27	23	32	30	26
E93050	2	6	13	4	19	2	12
E93067	16	19	19	23	8	24	29
HF92-080	8	28	8	9	26	11	19
HF92-092	19	24	9	10	11	23	9
LN89-3264	1	1	1	8	12	9	3
LN90-4187	11	8	4	17	16	15	13
LN91-4240	7	23	11	27	20	17	4
LN91-4616	6	9	15	7	15	5	16
LN91-5192	24	31	6	14	31	3	33
LN91-5218	30	26	15	26	29	7	18
LN91-5782	4	7	21	31	20	8	8
LN91-5895	3	27	23	5	4	1	22
M90-1199	26	29	21	29	28	6	30
M90-1262	26	29	26	11	27	28	13
M90-1459	21	13	10	12	6	16	11
M90-1610	19	32	32	21	18	33	32
M90-1742	33	33	29	32	9	31	20
ORC 9306	12	17	18	15	25	12	5
ORC 9308	9	22	7	6	1	4	1
SL92-1153M	14	18	19	25	23	25	25
SL92-1174M	18	10	5	13	6	26	17
SL92-1205M	28	25	2	33	14	13	21
SL92-1225M	12	11	14	20	33	14	23
SL92-1227M	17	16	17	16	30	21	7

PRELIMINARY TEST IIB, 1994

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	4.4	4		3	4	0
Kenwood 94 (II)	09/15	09/13		09/10	09/12	09/27
Sturdy (E)	-1.1	-2		-1	-5	-4
E93001	1.9	2		4	3	-2
E93002	1.0	2		1	2	-6
E93018	0.7	0		3	0	-6
E93023	2.5	2		6	2	-8
E93037	-0.5	0		2	-1	-4
E93044	3.9	2		7	3	1
E93050	3.7	1		7	3	1
E93067	1.4	0		3	2	-4
HF92-080	7.5	5		12	10	5
HF92-092	7.4	7		9	9	4
LN89-3264	3.9	2		7	4	1
LN90-4187	3.9	2		5	2	5
LN91-4240	5.1	4		8	5	6
LN91-4616	4.1	2		8	3	0
LN91-5192	8.7	8		12	9	6
LN91-5218	6.8	6		9	8	5
LN91-5782	6.3	5		9	8	1
LN91-5895	8.7	8		13	11	5
M90-1199	-0.5	-1		0	1	-4
M90-1262	1.3	2		3	2	-3
M90-1459	2.1	2		1	1	-2
M90-1610	0.6	-1		1	0	-3
M90-1742	-2.4	-3		-1	-4	-10
ORC 9306	1.6	2		3	1	0
ORC 9308	2.0	4		2	5	-2
SL92-1153M	0.6	2		1	2	-2
SL92-1174M	-2.3	-2		-2	-4	-11
SL92-1205M	0.2	2		1	2	-6
SL92-1225M	5.2	4		8	6	-1
SL92-1227M	4.3	4		5	5	-7
Date Planted	05/16	05/18		05/19	05/20	05/16
Days to Mature	122.3	118		114	115	134

PRELIMINARY TEST IIB, 1994

MATURITY (date)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	4	6		5	2	3	13
Kenwood 94 (II)	09/09	09/16		09/12	09/16	09/09	10/01
Sturdy (E)	2	-1		-2	-2	2	2
E93001	4	0		4	1	1	2
E93002	3	4		1	0	0	3
E93018	3	1		1	0	0	5
E93023	4	7		4	1	1	6
E93037	0	-1		-2	-2	0	3
E93044	4	4		2	2	5	9
E93050	7	4		3	0	5	6
E93067	3	0		1	2	2	5
HF92-080	9	7		5	4	6	12
HF92-092	7	7		6	4	7	14
LN89-3264	5	6		5	2	2	5
LN90-4187	6	3		5	0	0	11
LN91-4240	5	7		3	3	2	8
LN91-4616	4	5		3	0	3	13
LN91-5192	9	8		7	4	10	14
LN91-5218	5	9		4	4	7	11
LN91-5782	7	5		4	4	7	13
LN91-5895	8	9		4	6	10	13
M90-1199	1	-1		-1	-2	1	1
M90-1262	3	1		0	0	1	4
M90-1459	4	6		1	0	2	6
M90-1610	2	-1		-1	-1	0	10
M90-1742	0	-1		-2	-2	1	-2
ORC 9306	4	1		3	0	0	2
ORC 9308	4	0		3	1	3	0
SL92-1153M	3	0		1	-2	2	-1
SL92-1174M	0	-1		-1	-3	0	1
SL92-1205M	3	0		-1	-2	2	1
SL92-1225M	5	5		5	4	6	10
SL92-1227M	4	7		3	2	7	13
Date Planted	05/19	05/24		05/10	05/13	05/04	05/19
Days to Mature	113	115		125	126	128	135

PRELIMINARY TEST IIB, 1994

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	1.6	2.4	1.5	1.0	1.8	3.0
Kenwood 94 (II)	2.3	2.8	1.5	1.0	3.5	4.0
Sturdy (E)	1.9	1.7	2.5	1.0	3.3	2.5
E93001	1.7	1.4	1.2	1.0	2.8	3.0
E93002	1.8	1.5	1.4	1.0	2.8	3.5
E93018	1.4	1.3	1.2	1.0	1.5	1.5
E93023	1.4	1.4	1.3	1.0	1.0	2.0
E93037	1.7	1.4	1.2	1.0	3.5	3.0
E93044	1.8	1.5	1.6	1.0	2.3	2.5
E93050	1.6	1.5	1.7	1.0	2.3	3.0
E93067	1.7	1.5	1.6	1.0	2.5	3.0
HF92-080	2.1	1.5	2.4	1.0	3.0	5.0
HF92-092	2.6	3.0	2.2	1.5	3.3	4.5
LN89-3264	1.5	2.1	1.1	1.0	1.5	3.0
LN90-4187	1.5	1.3	1.1	1.0	2.3	3.0
LN91-4240	2.2	2.8	1.9	1.0	3.3	3.0
LN91-4616	1.5	1.2	1.3	1.0	1.5	3.0
LN91-5192	2.3	3.0	3.0	1.5	3.0	3.0
LN91-5218	2.1	2.8	1.8	1.0	2.5	2.5
LN91-5782	2.0	1.9	2.1	1.0	3.0	3.0
LN91-5895	2.6	2.8	2.7	2.0	3.3	3.0
M90-1199	2.4	2.6	3.6	1.0	3.5	4.0
M90-1262	2.2	1.9	2.3	1.0	3.0	3.5
M90-1459	2.0	1.6	1.4	1.0	3.3	4.0
M90-1610	2.3	2.4	2.1	1.0	3.8	4.0
M90-1742	2.1	3.0	2.0	1.0	3.5	2.5
ORC 9306	2.3	2.8	1.6	1.0	3.5	4.0
ORC 9308	2.0	2.1	1.6	1.0	2.8	3.0
SL92-1153M	2.5	3.0	3.0	1.0	3.3	4.5
SL92-1174M	2.1	1.6	2.7	1.0	3.3	3.5
SL92-1205M	2.3	3.3	3.0	1.0	3.5	3.0
SL92-1225M	2.4	2.5	2.1	1.0	3.3	3.5
SL92-1227M	2.5	3.0	3.5	1.0	3.5	3.5

PRELIMINARY TEST IIB, 1994

LODGING (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	1.0	1.5	1.0	1.0	1.0	1.0	3.0
Kenwood 94 (II)	1.0	1.0	2.5	2.0	3.0	2.0	3.8
Sturdy (E)	1.0	1.5	1.0	1.0	2.0	1.0	4.0
E93001	1.0	1.5	1.5	1.1	1.5	1.0	3.0
E93002	1.0	1.5	2.0	1.0	1.5	1.0	3.0
E93018	1.0	1.0	1.0	1.0	1.0	2.0	3.0
E93023	1.5	1.0	1.0	1.0	1.0	1.0	3.0
E93037	1.0	1.0	2.0	1.0	1.0	1.0	3.0
E93044	1.0	1.5	2.5	1.0	1.0	2.0	3.3
E93050	1.0	1.5	1.5	1.0	1.0	1.0	2.8
E93067	1.0	1.0	2.0	1.0	1.5	1.0	3.0
HF92-080	1.0	2.0	2.5	1.2	1.0	2.0	3.0
HF92-092	1.0	2.0	3.5	2.1	2.5	2.0	3.3
LN89-3264	1.0	1.0	1.5	1.0	1.0	1.0	3.3
LN90-4187	1.0	1.0	1.0	1.0	1.0	1.0	3.0
LN91-4240	1.5	1.5	3.0	1.5	2.0	1.0	3.3
LN91-4616	1.5	2.0	1.0	1.0	1.0	1.0	3.0
LN91-5192	1.0	2.5	2.0	1.0	2.5	2.0	3.3
LN91-5218	1.0	2.0	2.5	1.1	2.0	2.0	3.5
LN91-5782	1.5	1.5	3.0	1.0	2.0	1.0	3.0
LN91-5895	1.5	2.0	4.5	1.6	2.5	2.0	3.8
M90-1199	1.0	1.0	3.0	1.2	2.5	1.0	4.0
M90-1262	1.5	2.0	2.5	1.7	2.0	1.0	4.0
M90-1459	1.0	2.0	2.0	1.1	2.0	1.0	3.5
M90-1610	1.0	1.0	3.0	1.4	2.5	1.0	3.8
M90-1742	1.5	2.0	1.5	1.0	2.5	1.0	4.0
ORC 9306	1.0	2.0	2.5	1.5	3.0	1.0	3.5
ORC 9308	1.5	1.5	3.5	1.0	1.0	1.0	3.5
SL92-1153M	1.5	1.5	4.0	1.5	2.0	1.0	3.5
SL92-1174M	1.0	2.0	3.0	1.0	1.5	1.0	3.8
SL92-1205M	1.0	1.0	3.5	1.0	1.5	2.0	3.8
SL92-1225M	1.5	2.0	3.5	1.4	2.5	2.0	3.3
SL92-1227M	1.0	2.5	3.5	1.2	1.5	2.0	3.5

PRELIMINARY TEST IIB, 1994

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	37	42	40	31	38	39
Kenwood 94 (II)	36	38	38	32	36	32
Sturdy (E)	36	41	37	29	36	37
E93001	38	40	38	36	39	41
E93002	34	38	38	31	33	36
E93018	32	37	34	28	30	31
E93023	34	42	37	28	32	34
E93037	35	40	36	30	35	38
E93044	39	44	42	35	41	42
E93050	37	42	40	33	35	41
E93067	36	42	39	33	39	36
HF92-080	38	43	42	35	36	43
HF92-092	40	46	40	37	42	44
LN89-3264	34	38	36	28	34	33
LN90-4187	34	37	36	31	32	33
LN91-4240	42	44	45	40	43	45
LN91-4616	33	40	34	30	33	32
LN91-5192	43	47	46	40	44	46
LN91-5218	41	42	44	38	42	35
LN91-5782	37	40	38	32	35	36
LN91-5895	44	45	46	40	46	42
M90-1199	37	43	42	32	37	42
M90-1262	39	42	39	33	40	43
M90-1459	36	41	39	31	35	36
M90-1610	34	36	37	28	33	34
M90-1742	37	42	38	31	36	39
ORC 9306	35	36	38	34	34	40
ORC 9308	39	42	44	34	39	46
SL92-1153M	38	42	41	35	39	42
SL92-1174M	37	41	40	32	41	37
SL92-1205M	40	44	44	34	43	39
SL92-1225M	39	43	43	36	39	40
SL92-1227M	38	42	41	34	39	40

PRELIMINARY TEST IIB, 1994

PLANT HEIGHT (inches)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	36	37	30	32	36	41	43
Kenwood 94 (II)	40	39	30	30	39	36	41
Sturdy (E)	35	41	28	29	37	37	39
E93001	42	40	36	33	36	36	40
E93002	28	35	30	29	35	37	40
E93018	35	35	28	28	30	32	38
E93023	36	34	27	31	34	33	40
E93037	38	35	30	26	33	33	40
E93044	38	41	33	34	39	38	42
E93050	35	39	30	30	37	37	41
E93067	35	34	31	31	35	33	40
HF92-080	35	38	32	32	39	34	47
HF92-092	38	40	32	30	44	42	43
LN89-3264	42	28	29	29	34	33	40
LN90-4187	38	32	29	30	32	32	40
LN91-4240	38	41	35	38	45	38	46
LN91-4616	33	33	28	28	31	37	37
LN91-5192	39	44	39	37	47	44	44
LN91-5218	42	42	39	36	44	42	44
LN91-5782	40	39	35	29	38	35	41
LN91-5895	43	50	48	37	54	42	37
M90-1199	33	41	29	29	37	37	40
M90-1262	33	45	36	34	37	41	40
M90-1459	39	38	28	31	37	38	40
M90-1610	33	37	30	28	34	33	40
M90-1742	38	41	30	30	40	37	40
ORC 9306	36	35	30	30	37	33	42
ORC 9308	35	41	37	33	40	37	45
SL92-1153M	42	41	32	34	36	34	43
SL92-1174M	37	42	32	31	36	33	39
SL92-1205M	37	41	43	35	41	40	39
SL92-1225M	39	39	36	33	43	39	42
SL92-1227M	36	40	34	30	38	39	42

PRELIMINARY TEST IIB, 1994

SEED QUALITY (score)

Strain	Mean 12 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	2.0	2.0	2.0	2.3	1.0	2.0
Kenwood 94 (II)	2.0	2.0	1.5	1.8	1.5	2.0
Sturdy (E)	2.1	1.5	2.5	1.8	1.5	1.5
E93001	2.2	3.0	3.0	2.5	1.0	1.5
E93002	2.1	1.5	2.0	1.8	1.0	2.0
E93018	1.8	1.5	1.5	1.5	1.0	1.5
E93023	2.1	2.5	2.0	2.3	1.0	1.0
E93037	1.9	2.0	2.0	1.5	1.0	1.0
E93044	1.5	1.5	1.5	1.8	1.0	1.0
E93050	2.0	2.0	2.0	2.0	1.0	1.5
E93067	1.6	1.5	1.0	1.5	1.0	1.0
HF92-080	1.4	1.5	1.5	1.8	1.0	1.5
HF92-092	2.1	2.5	2.0	2.0	1.0	2.0
LN89-3264	1.6	1.5	1.5	2.0	1.0	1.0
LN90-4187	1.8	2.0	2.0	1.5	1.5	1.5
LN91-4240	1.7	1.5	2.0	1.5	1.0	1.0
LN91-4616	1.5	1.5	1.5	1.5	1.0	1.5
LN91-5192	1.9	2.0	2.5	1.5	1.0	1.0
LN91-5218	1.7	2.0	2.0	1.5	1.0	1.0
LN91-5782	2.0	2.5	2.5	2.0	1.5	1.0
LN91-5895	1.8	1.5	1.5	2.3	1.0	1.0
M90-1199	1.6	1.0	1.5	1.8	1.5	1.0
M90-1262	2.1	1.5	2.5	1.8	1.0	1.0
M90-1459	2.0	2.0	2.5	1.5	1.5	1.5
M90-1610	2.0	1.5	2.0	2.0	1.0	2.5
M90-1742	1.7	1.5	1.5	1.5	1.0	1.0
ORC 9306	1.8	2.0	1.5	1.5	1.0	1.5
ORC 9308	1.7	2.5	2.0	1.5	1.0	1.0
SL92-1153M	1.8	2.0	2.0	1.5	1.5	1.0
SL92-1174M	1.8	1.5	1.5	1.8	1.0	1.0
SL92-1205M	1.9	1.5	2.0	2.0	1.0	1.0
SL92-1225M	1.7	1.5	2.0	2.0	1.0	1.0
SL92-1227M	2.3	2.5	2.5	2.0	1.0	1.0

PRELIMINARY TEST IIB, 1994

SEED QUALITY (score)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	2.5	2.0	2.5	1.0	1.0	3.0	2.3
Kenwood 94 (II)	2.0	2.5	1.5	1.0	1.0	5.0	2.3
Sturdy (E)	2.5	3.0	2.0	1.0	1.0	4.0	2.8
E93001	3.5	2.5	1.0	1.0	1.0	4.0	2.5
E93002	2.5	2.5	1.5	2.0	1.0	4.0	2.8
E93018	2.0	2.0	1.5	1.0	1.5	4.0	2.3
E93023	3.0	2.0	2.0	1.0	1.0	4.0	2.8
E93037	3.5	2.0	1.0	1.0	1.5	5.0	1.8
E93044	1.5	2.0	1.0	1.0	1.0	3.0	1.8
E93050	2.5	2.0	1.0	1.0	1.0	5.0	2.5
E93067	2.0	2.0	1.0	1.0	1.5	4.0	1.5
HF92-080	1.5	1.0	1.0	1.0	1.0	2.0	1.8
HF92-092	2.5	2.0	1.0	1.0	1.0	5.0	3.0
LN89-3264	2.5	2.0	1.0	1.0	1.0	3.0	2.0
LN90-4187	2.0	1.5	1.0	1.0	1.0	4.0	2.3
LN91-4240	2.5	2.0	1.0	1.0	1.0	4.0	1.8
LN91-4616	1.0	2.0	1.0	1.0	1.0	2.0	2.5
LN91-5192	3.5	1.5	1.0	1.0	1.0	4.0	2.5
LN91-5218	2.0	3.0	1.0	1.0	1.0	3.0	2.0
LN91-5782	3.5	2.5	1.0	1.0	1.0	3.0	2.0
LN91-5895	3.5	2.0	1.0	1.0	1.0	4.0	2.0
M90-1199	2.0	1.5	1.5	1.0	1.0	3.0	2.8
M90-1262	2.5	1.5	2.0	2.0	1.5	5.0	3.3
M90-1459	2.0	2.0	2.0	1.0	1.5	3.0	3.8
M90-1610	1.5	2.0	1.0	1.0	2.0	4.0	4.0
M90-1742	2.0	2.0	2.5	1.0	1.0	3.0	2.5
ORC 9306	2.0	2.0	1.0	1.0	2.0	3.0	2.8
ORC 9308	2.0	2.0	1.0	1.0	1.0	3.0	2.5
SL92-1153M	2.5	2.0	2.0	1.0	1.0	3.0	2.3
SL92-1174M	2.0	2.0	2.0	1.0	1.5	4.0	2.0
SL92-1205M	2.5	1.5	1.5	1.0	1.5	5.0	2.0
SL92-1225M	2.0	1.5	2.0	1.0	1.0	3.0	2.0
SL92-1227M	4.0	2.5	2.0	1.0	1.0	5.0	2.8

PRELIMINARY TEST IIB, 1994

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Keystone IA	Urbana IL	Lafay-ette IN	Ingham County MI
IA2007 (L)	18.6	18.7	18.3	19.4	18.4	18.8
Kenwood 94 (II)	16.6	17.5	16.8	15.4	16.0	18.9
Sturdy (E)	18.6	19.0	17.4	17.8	17.3	21.0
E93001	19.1	19.6	18.6	19.5	18.8	21.8
E93002	19.7	19.7	17.6	19.6	18.3	22.3
E93018	18.2	18.4	17.4	17.9	17.1	18.4
E93023	18.3	17.6	18.1	17.9	18.2	17.8
E93037	16.0	16.0	15.2	15.4	14.6	19.7
E93044	18.2	18.1	18.2	19.1	18.4	19.9
E93050	21.8	21.4	22.4	23.2	21.3	22.2
E93067	17.0	17.0	16.6	17.9	17.0	18.3
HF92-080	17.8	18.0	17.5	18.2	17.5	18.0
HF92-092	18.8	19.7	18.7	18.4	18.4	19.2
LN89-3264	19.5	19.7	19.5	19.3	17.7	20.1
LN90-4187	19.4	19.2	18.2	20.9	18.3	21.4
LN91-4240	18.9	19.2	18.7	19.5	19.1	22.3
LN91-4616	15.8	16.2	14.4	15.5	15.5	14.9
LN91-5192	17.4	18.0	16.9	18.4	17.3	19.3
LN91-5218	19.5	20.8	20.0	20.6	20.0	20.1
LN91-5782	19.8	20.9	21.0	21.4	19.4	18.7
LN91-5895	17.9	17.8	17.0	19.6	18.8	16.8
M90-1199	17.7	18.1	17.2	18.6	16.7	18.9
M90-1262	19.4	19.6	18.8	18.8	19.0	21.6
M90-1459	19.0	19.2	18.5	18.4	17.8	20.0
M90-1610	16.7	18.2	16.3	18.0	15.8	18.2
M90-1742	18.1	18.4	17.4	17.7	17.8	16.0
ORC 9306	17.7	18.3	18.1	18.9	16.5	18.3
ORC 9308	17.2	18.8	17.2	17.4	16.9	18.8
SL92-1153M	15.5	16.8	15.3	14.4	14.9	16.5
SL92-1174M	18.4	18.7	17.6	17.2	17.9	17.4
SL92-1205M	19.6	20.8	18.8	21.1	20.4	15.5
SL92-1225M	21.2	22.2	19.9	20.3	21.7	18.0
SL92-1227M	21.0	22.4	21.4	19.8	20.5	20.5

PRELIMINARY TEST IIB, 1994

SEED SIZE (g\100)

Strain	David City NE	Harting-ton NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Beres-ford SD	Arling-ton WI
IA2007 (L)	17.7	19.4	16.5	20.0		17.0	20.7
Kenwood 94 (II)	15.9	17.3	15.0	16.9		14.0	18.8
Sturdy (E)	18.2	19.1	17.5	20.9		16.0	20.4
E93001	18.7	19.4	18.0	19.6		15.0	21.4
E93002	18.9	21.4	18.5	19.5		18.0	23.2
E93018	17.8	19.0	18.0	18.8		17.0	20.5
E93023	17.9	19.8	17.5	20.2		16.0	20.7
E93037	15.0	17.5	14.0	17.4		14.0	17.7
E93044	17.3	19.7	15.5	18.6		17.0	18.8
E93050	22.1	23.0	19.5	22.7		21.0	21.0
E93067	16.3	18.1	16.0	16.9		15.0	18.4
HF92-080	17.0	19.0	16.0	17.6		17.0	19.8
HF92-092	18.2	20.2	16.5	19.0		19.0	19.5
LN89-3264	19.7	20.9	19.0	20.5		17.0	21.4
LN90-4187	19.3	20.2	19.5	19.1		17.0	20.4
LN91-4240	18.4	18.9	18.5	19.2		14.0	20.4
LN91-4616	16.2	17.4	13.0	15.2		15.0	20.1
LN91-5192	15.9	18.8	16.0	17.9		15.0	17.8
LN91-5218	19.1	19.9	17.5	19.5		17.0	20.2
LN91-5782	19.3	20.6	18.0	18.2		19.0	21.4
LN91-5895	18.0	19.7	16.5	18.2		17.0	17.8
M90-1199	17.1	18.7	16.5	18.8		16.0	18.5
M90-1262	18.9	21.4	18.5	19.7		16.0	21.3
M90-1459	18.6	21.1	18.0	20.7		15.0	21.4
M90-1610	16.2	17.3	14.0	18.0		15.0	16.2
M90-1742	18.2	19.4	18.0	20.9		16.0	19.7
ORC 9306	16.4	18.5	17.0	16.0		16.0	20.4
ORC 9308	17.1	17.4	15.5	17.8		14.0	18.8
SL92-1153M	15.2	16.6	14.0	15.5		14.0	17.4
SL92-1174M	17.7	19.5	17.5	20.9		17.0	20.5
SL92-1205M	20.1	20.5	21.0	19.8		17.0	20.4
SL92-1225M	21.5	23.2	20.0	23.3		20.0	22.6
SL92-1227M	21.0	23.7	19.0	20.9		20.0	21.9

PRELIMINARY TEST IIB, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA2007 (L)	41.2	41.1	40.1	41.6	41.8
Kenwood 94 (II)	40.1	40.8	37.8	40.7	40.9
Sturdy (E)	40.7	41.6	39.0	41.8	40.5
E93001	40.0	40.1	38.9	40.6	40.2
E93002	40.3	40.7	39.2	41.0	40.3
E93018	40.0	40.3	38.5	40.9	40.3
E93023	39.6	39.1	38.1	40.1	41.0
E93037	40.1	40.7	37.7	40.9	41.2
E93044	41.2	41.5	40.6	41.9	40.8
E93050	41.4	41.1	40.6	42.1	41.6
E93067	41.2	41.7	40.0	41.8	41.4
HF92-080	41.0	40.4	40.7	41.1	41.7
HF92-092	41.4	41.9	40.3	41.9	41.4
LN89-3264	39.8	39.8	38.8	40.1	40.6
LN90-4187	43.0	42.7	42.5	43.1	43.6
LN91-4240	42.1	41.7	41.4	42.6	42.8
LN91-4616	41.6	41.3	41.3	42.2	41.7
LN91-5192	42.1	41.5	42.3	42.5	41.9
LN91-5218	43.1	43.1	41.9	43.4	43.8
LN91-5782	44.2	43.6	43.9	45.2	44.2
LN91-5895	41.8	40.9	42.1	41.9	42.1
M90-1199	41.5	42.6	40.1	41.8	41.5
M90-1262	40.9	41.6	39.1	41.4	41.5
M90-1459	40.4	41.0	38.3	40.9	41.4
M90-1610	40.9	41.3	39.6	41.7	40.9
M90-1742	42.3	42.4	41.0	42.3	43.4
ORC 9306	40.7	41.4	38.9	41.2	41.1
ORC 9308	40.9	41.3	39.8	41.3	41.4
SL92-1153M	40.3	40.9	38.7	40.7	40.9
SL92-1174M	41.4	42.7	39.9	41.0	41.8
SL92-1205M	42.2	42.9	40.3	42.9	42.5
SL92-1225M	42.1	41.8	40.6	42.1	43.7
SL92-1227M	42.7	42.9	41.4	43.0	43.6

PRELIMINARY TEST IIB, 1994

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA2007 (L)	20.6	20.2	21.3	20.8	20.1
Kenwood 94 (II)	20.3	19.7	21.2	20.5	19.7
Sturdy (E)	20.3	19.6	21.4	20.2	20.1
E93001	20.4	19.5	21.1	20.7	20.1
E93002	20.8	19.7	21.6	20.9	20.9
E93018	20.1	19.4	20.7	19.8	20.6
E93023	20.7	19.5	21.5	21.5	20.3
E93037	20.5	20.2	21.2	20.4	20.0
E93044	20.7	20.0	21.4	21.0	20.4
E93050	20.3	20.0	21.2	20.2	19.8
E93067	19.8	19.3	20.9	19.9	19.2
HF92-080	20.4	19.8	20.9	20.5	20.3
HF92-092	19.8	19.3	20.9	19.4	19.7
LN89-3264	20.7	20.0	21.6	20.8	20.5
LN90-4187	19.9	19.3	20.8	19.7	19.7
LN91-4240	20.3	20.5	20.7	20.1	19.7
LN91-4616	20.5	20.2	21.2	20.6	19.9
LN91-5192	20.2	20.2	20.3	20.5	19.7
LN91-5218	19.7	19.1	20.6	19.6	19.5
LN91-5782	20.0	19.5	20.5	19.7	20.2
LN91-5895	20.4	20.2	20.9	20.8	19.6
M90-1199	20.4	19.8	21.2	20.6	20.1
M90-1262	20.7	20.2	21.5	20.8	20.2
M90-1459	20.8	20.3	21.9	20.5	20.6
M90-1610	20.1	19.3	21.2	20.0	20.0
M90-1742	20.7	20.3	21.5	20.8	20.0
ORC 9306	20.3	19.7	21.1	20.8	19.5
ORC 9308	20.0	19.7	20.7	20.4	19.3
SL92-1153M	20.6	20.2	21.4	20.8	19.8
SL92-1174M	20.2	19.2	21.1	20.8	19.6
SL92-1205M	20.5	19.5	21.2	20.5	20.6
SL92-1225M	20.3	19.8	21.4	20.7	19.1
SL92-1227M	20.1	19.7	20.9	20.2	19.5

UNIFORM TEST III, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Charleston (dtl)	HC74-634RE x HC78-676	5	F5	dtl
Flyer (IV)	Asgrow A3127[4] x Williams 82	8	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	2	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	8	BC3 F3	Rps1-k
Thorne (BSR)	A80-344003 x Asgrow A3127 BC3 F2-1	4	F6	BSR resis.
A91-701007	NK S23-03 x A86-301024	1	F5	BSR resis.
A92-627035	Dairyland DSR 252 x Kenwood	PTIIIB	F5	
A92-632035	Dairyland DSR 304 x Northrup King S23-12	PTIIIB	F5	
A92-727017	Kenwood x Asgrow A3205	PTIIIB	F5	
C1875	A86-301024 x Resnik	PTIIIA	F4	
HC89-1419 (dtl)	Hobbit 87 x HC74-634RE	PTIVB	F5	dtl
HC89-2232	HC80-1944 x Asgrow A3127	PTIVA	F5	Dtl
HS90-3677	HM8580 x GR8936	PTIIIA	F5	Rps1-k
HS91-4523	HM8778 x Asgrow A3733	PTIIIA	F5	Rps
HS91-4621	GR8936 x (HM8580 x GR8936)	PTIIIA	F5	Rps1-k
LN88-10534	LN81-1029 x Asgrow A2943	2	F5	Rps?
LN89-295	Sherman x Resnik	1	F5	
LN89-334	Sherman x Resnik	PTIIIA	F5	Rps1-k
LN89-3619	Hobbit 87 x Asgrow A3205	PTIIIA	F5	Rps1-k
LN90-728	Sherman x A83-271027	PTIIIA	F5	
SL89-203	Sherman x Resnik	PTIIIA	F5	
U91-3212	Hamilton x A86-204022	1	F4	
U91-3516	Hamilton x Kenwood	1	F4	
U91-3607	Hamilton x Kenwood	1	F4	
U91-3610	Hamilton x Asgrow A3427	1	F4	
U92-3602	UX112 x Asgrow A3427	PTIIIB	F5	
U92-3604	UX110 x Asgrow A3427	PTIIIB	F5	

* Number of years in test or name of 1993 test.

UNIFORM TEST III, 1994

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Manhattan	Shattering Score Topeka
Charleston (dtl)	PTTD	4.1	2.0	1	1	1
Flyer (IV)	PTTIYBlI	4.0	2.5	1	1	1
IA2007 (II)	PTBIYBrI	4.2	1.5	2	1	1
Resnik (III)	PTTSYBlI	4.1	3.5	1	1	1
Thorne (BSR)	WTBSYBlI	3.8	4.0	1	2	2
A91-701007	PGBIYBlI	4.5	3.0	2	1	1
A92-627035	PTBDYBrI	4.8	2.0	1	1	1
A92-632035	WGBIYBlI	3.8	3.0	1	1	1
A92-727017	PTBIYBlI	4.4	5.0	1	2	2
C1875	PTTDYBlI	4.0	2.5	1	1	1
HC89-1419 (dtl)	WTTSYBlD	4.1	2.5	1	1	1
HC89-2232	PTTDYBlI	4.4	2.0	2	1	1
HS90-3677	PTTSYBlI	4.1	3.0	1	1	1
HS91-4523	PGBIYIbI	3.2	2.5	1	1	1
HS91-4621	P+WTTIYBlI	4.2	3.0	1	1	1
LN88-10534	PGBIYIbI	4.0	3.0	4	1	1
LN89-295	WTBDYBlI	4.2	3.5	1	1	1
LN89-334	WGBIYBfI	4.0	3.0	1	1	1
LN89-3619	PTBSYBlI	4.4	2.0	1	1	1
LN90-728	WTBSYBl+BrI	3.6	5.0	1	1	1
SL89-203	WGTDYBfI	4.4	2.5	5	1	1
U91-3212	WGTDYBfI	4.4	2.5	1	2	2
U91-3516	WGTSYBfI	4.2	2.5	1	1	1
U91-3607	WGTDYBfI	4.0	3.0	1	1	1
U91-3610	PGTIYBfI	3.8	2.0	1	1	1
U92-3602	PTTDYBlI	4.1	2.0	5	1	1
U92-3604	PGTDYIbI	3.8	1.5	5	1	1

UNIFORM TEST III, 1994

DISEASE DATA

Strain	BSR-Boone Plant n %	BSR-Boone Stem n %	PR Custar Root Rot Race 25	PR Ames Race 4	PR Laf. Race 7	PS Laf. a %	PSB Vin. n %
Charleston (dtl)	90.0	65.1	4.3	S	S	0	4
Flyer (IV)	100.0	61.5	3.6	R	R	8	4
IA2007 (II)	70.0	50.1	3.7	S	R	5	14
Resnik (III)	95.0	86.3	3.8	R	R	6	12
Thorne (BSR)	75.0	33.1	3.7	R	R	14	12
A91-701007	75.0	34.5	2.9	S	H	1	10
A92-627035	90.0	74.3	4.0	S	S	12	36
A92-632035	75.0	49.0	4.0	S	S	9	12
A92-727017	80.0	64.1	4.0	S	S	19	12
C1875	90.0	77.3	3.2	R	R	9	14
HC89-1419 (dtl)	55.0	37.9	4.7	H	R	2	20
HC89-2232	80.0	46.0	4.1	S	S	2	0
HS90-3677	70.0	43.2	4.1	R	R	3	16
HS91-4523	65.0	40.5	3.5	R	S	12	6
HS91-4621	95.0	59.8	3.8	R	R	17	4
LN88-10534	75.0	60.2	4.0	S	S	16	2
LN89-295	95.0	61.2	3.9	S	S	13	4
LN89-334	100.0	83.6	3.9	R	R	17	0
LN89-3619	85.0	42.6	3.8	R	R	1	6
LN90-728	90.0	54.8	3.5	S	S	6	20
SL89-203	100.0	78.8	3.4	R	R	19	12
U91-3212	100.0	81.3	4.6	S	S	10	6
U91-3516	100.0	66.7	3.7	S	S	13	18
U91-3607	90.0	56.2	4.3	S	S	28	16
U91-3610	95.0	72.6	3.6	S	R	12	10
U92-3602	90.0	65.1	3.3	S	R	1	0
U92-3604	100.0	36.9	3.7	S	R	6	6

UNIFORM TEST III, 1994

SDS DATA

Strain	SDS Data				
	Villa Ridge				
	RDate	R6DI	R6DS	R6DX	DX Rank
Charleston (dtl)	88.0	85.0	1.4	13.8	18
Flyer (IV)	98.0	103.0	1.7	19.2	26
IA2007 (II)	86.0	19.0	1.1	3.5	5
Resnik (III)	94.0	92.0	1.3	13.1	16
Thorne (BSR)	93.0	95.0	1.1	12.0	14
A91-701007	89.0	97.0	1.6	17.2	23
A92-627035	88.0	85.0	1.2	11.7	13
A92-632035	91.0	89.0	1.5	15.6	20
A92-727017	91.0	14.0	1.3	3.8	7
C1875	91.0	90.0	1.7	18.0	24
HC89-1419 (dtl)	91.0	86.0	1.7	16.8	22
HC89-2232	95.0	79.0	1.2	10.2	10
HS90-3677	90.0	99.0	1.7	18.7	25
HS91-4523	89.0	98.0	2.5	27.8	30
HS91-4621	89.0	84.0	1.4	13.3	17
LN88-10534	91.0	67.0	1.3	10.8	11
LN89-295	98.0	60.0	1.2	9.5	9
LN89-334	95.0	96.0	2.0	21.5	29
LN89-3619	91.0	86.0	1.3	13.0	15
LN90-728	90.0	70.0	1.0	8.3	8
SL89-203	94.0	80.0	1.6	15.8	21
U91-3212	88.0	65.0	1.3	10.8	12
U91-3516	89.0	5.0	0.9	-1.3	1
U91-3607	92.0	28.0	0.9	2.0	3
U91-3610	88.0	49.0	0.9	3.4	4
U92-3602	98.0	95.0	2.0	20.8	27
U92-3604	91.0	79.0	1.5	13.9	19

UNIFORM TEST III, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 25 bu/a	Rank 25 No.	Maturity 21 Date	Lodging 26 Score	Plant Height 26 In.	Seed Quality 25 Score	Seed Size 24 g/100	Composition Protein 4 %	 Oil 4 %
Charleston (dtl)	57.1	9	2.9	1.3	24	1.5	15.7	42.4	20.0
Flyer (IV)	55.6	20	5.8	1.5	35	1.4	14.5	42.3	20.5
IA2007 (II)	52.7	26	-3.9	1.3	32	1.8	17.3	40.6	20.6
Resnik (III)	54.7	24	09/16	1.5	32	1.5	15.1	41.8	20.6
Thorne (BSR)	56.3	17	2.2	1.6	32	1.8	17.7	42.6	20.3
A91-701007	56.7	11	-2.0	1.5	34	1.6	16.2	41.7	19.7
A92-627035	56.5	14	2.3	1.9	33	1.8	15.6	40.9	20.7
A92-632035	57.3	7	3.4	1.9	35	1.6	15.4	41.1	20.1
A92-727017	58.0	3	3.1	1.8	35	1.8	15.5	41.5	20.1
C1875	56.7	11	-1.0	1.4	31	1.4	15.7	41.9	20.1
HC89-1419 (dtl)	51.7	27	3.7	1.2	23	1.6	16.8	42.8	20.0
HC89-2232	57.8	4	5.4	1.7	38	1.5	14.8	41.9	20.2
HS90-3677	54.6	25	0.1	1.4	33	1.5	15.9	42.3	20.6
HS91-4523	55.4	21	-0.0	1.5	35	1.6	18.8	42.2	20.5
HS91-4621	55.1	23	1.2	1.6	34	1.5	15.7	42.4	20.6
LN88-10534	56.5	15	-0.5	1.6	35	1.8	15.8	41.9	19.9
LN89-295	61.2	1	4.3	1.7	34	1.5	18.1	41.1	20.2
LN89-334	57.6	5	2.0	1.7	33	1.5	14.7	42.1	20.3
LN89-3619	57.6	5	2.6	2.0	35	1.6	16.0	41.5	21.1
LN90-728	55.7	19	-0.0	1.7	33	1.5	16.6	42.6	19.9
SL89-203	55.2	22	1.4	1.3	32	1.4	14.9	41.2	20.6
U91-3212	57.1	9	3.1	2.0	35	1.6	16.7	41.4	20.6
U91-3516	56.6	13	4.4	1.9	35	1.7	17.9	42.4	20.8
U91-3607	59.3	2	4.0	1.7	35	1.8	17.1	41.7	21.0
U91-3610	56.4	16	3.7	1.9	35	1.7	16.8	41.8	20.7
U92-3602	56.0	18	5.6	2.8	37	1.6	16.8	42.6	19.5
U92-3604	57.2	8	2.0	1.4	31	1.5	14.9	43.5	20.1

121.9 Days After Planting

UNIFORM TEST III, 1994

1993-1994 2-YEAR MEAN

No. of Tests Strain	Yield 49 bu/a	Rank 49 No.	Maturity 41 Date	Lodging 50 Score	Plant Height 50 In.	Seed Quality 48 Score	Seed Size 47 g/100	Composition Protein 9 %	 Oil 9 %
Charleston (dtl)	53.1	8	3.9	1.5	24	1.6	15.1	42.2	20.1
Flyer (IV)	52.2	10	5.8	1.5	34	1.5	14.0	42.3	20.5
IA2007 (II)	48.3	12	-4.2	1.3	30	2.0	17.1	40.3	21.4
Resnik (III)	51.6	11	09/19.0	1.5	31	1.6	14.8	41.6	20.9
Thorne (BSR)	52.7	9	2.1	1.6	31	1.8	17.1	42.3	20.8
A91-701007	53.2	6	-1.2	1.5	33	1.7	15.9	41.1	20.4
LN88-10534	53.2	6	0.0	1.6	34	1.7	15.3	41.4	20.6
LN89-295	56.7	1	4.6	1.7	33	1.6	17.3	41.0	20.5
U91-3212	53.4	3	3.2	2.0	34	1.8	16.1	41.2	21.1
U91-3516	53.3	4	4.9	1.9	34	1.7	17.3	41.9	21.3
U91-3607	55.4	2	4.3	1.7	34	1.9	16.6	41.4	21.5
U91-3610	53.3	4	4.2	1.8	34	1.8	16.1	41.4	21.3

122.4 Days After Planting

1992-1994 3-YEAR MEAN

No. of Tests Strain	Yield 71 bu/a	Rank 71 No.	Maturity 60 Date	Lodging 75 Score	Plant Height 75 In.	Seed Quality 71 Score	Seed Size 69 g/100	Composition Protein 13 %	 Oil 13 %
Charleston (dtl)	53.4	2	4.2	1.4	24	1.6	15.3	41.8	19.9
Flyer (IV)	53.1	4	6.3	1.4	34	1.5	14.5	41.9	20.4
IA2007 (II)	49.3	6	-3.8	1.3	31	2.1	17.2	40.2	21.1
Resnik (III)	52.0	5	09/19.0	1.4	31	1.6	15.0	41.7	20.6
Thorne (BSR)	53.3	3	2.8	1.5	31	1.8	17.2	42.1	20.7
LN88-10534	53.8	1	0.0	1.5	34	1.8	15.3	41.5	20.4

123.2 Days After Planting

UNIFORM TEST III, 1994

YIELD (bu/a)

Strain	Mean 25 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	57.1	35.0	70.3	60.4	59.3	63.7	65.8
Flyer (IV)	55.6	49.2	66.8	62.4	55.3	48.4	60.0
IA2007 (II)	52.7	32.6	65.9	57.1	60.6	54.7	54.4
Resnik (III)	54.7	42.4	66.3	57.8	59.1	48.6	57.0
Thorne (BSR)	56.3	41.5	65.4	64.2	58.0	61.2	57.1
A91-701007	56.7	35.4	68.7	65.8	60.6	67.3	55.7
A92-627035	56.5	51.1	66.4	54.5	59.5	59.2	61.5
A92-632035	57.3	46.2	64.6	59.0	62.0	57.7	60.6
A92-727017	58.0	37.0	69.8	61.3	60.3	54.8	56.4
C1875	56.7	36.0	68.2	60.2	62.5	59.7	61.2
HC89-1419 (dtl)	51.7	36.4	67.2	59.8	60.2	45.4	57.8
HC89-2232	57.8	39.3	72.8	61.7	59.0	62.7	62.6
HS90-3677	54.6	34.0	66.0	59.6	59.3	54.4	57.8
HS91-4523	55.4	42.6	68.1	65.3	60.0	53.8	55.4
HS91-4621	55.1	38.7	66.1	60.4	58.5	62.1	57.0
LN88-10534	56.5	41.3	67.2	53.2	62.0	55.3	56.7
LN89-295	61.2	53.4	73.8	60.6	63.8	70.4	64.3
LN89-334	57.6	43.0	72.6	55.1	59.5	58.2	59.2
LN89-3619	57.6	49.5	67.8	61.1	58.5	56.7	52.3
LN90-728	55.7	33.3	69.2	61.0	58.9	59.3	62.9
SL89-203	55.2	30.1	67.2	54.4	67.5	54.7	57.6
U91-3212	57.1	43.7	70.4	57.5	61.9	56.2	61.0
U91-3516	56.6	49.0	66.2	51.9	58.1	61.7	62.1
U91-3607	59.3	40.5	71.1	59.9	59.7	56.4	65.1
U91-3610	56.4	38.6	67.1	60.8	57.4	61.7	60.6
U92-3602	56.0	48.8	63.3	58.6	56.3	65.4	55.3
U92-3604	57.2	38.2	70.3	61.9	62.1	64.5	59.6
C.V. (%)		8.5	4.5	7.5	7.1	11.4	5.8
L.S.D. (5%)		5.7	5.0	7.1	7.0	10.8	5.6
Row Sp. (in.)		15	27	27	27	30	30
Rows/Plot		5	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST III, 1994

YIELD (bu/a)

Strain	Urbana IL	Bluff-* ton IN	Lafay- ette IN	Vince- nnes IN	Man- hattan KS	Pow- hattan KS	Topeka KS	Lexing- ton KY
Charleston (dtl)	56.9	29.8	68.2	34.9	63.8	39.8	59.6	31.6
Flyer (IV)	51.4	39.2	57.9	49.9	66.6	36.8	64.0	40.0
IA2007 (II)	47.9	29.0	58.5	30.6	66.8	34.5	57.8	26.2
Resnik (III)	50.8	34.9	57.5	43.0	69.2	36.4	65.4	34.4
Thorne (BSR)	51.4	47.5	72.3	32.7	67.7	33.7	72.4	31.7
A91-701007	44.7	47.1	62.1	37.8	71.5	34.2	65.3	30.6
A92-627035	51.6	38.5	57.9	35.7	71.1	43.4	66.7	33.1
A92-632035	49.0	35.8	66.2	35.7	72.6	36.3	68.0	36.1
A92-727017	48.0	39.4	67.4	46.6	79.7	39.2	67.1	38.9
C1875	53.1	49.0	59.5	42.0	69.5	40.0	66.0	29.1
HC89-1419 (dtl)	42.3	23.6	58.4	38.7	59.0	38.5	62.0	36.8
HC89-2232	53.0	34.1	69.6	41.3	61.7	38.3	59.9	39.8
HS90-3677	47.6	45.9	61.8	38.4	69.7	38.8	66.1	36.6
HS91-4523	45.9	46.3	60.7	40.2	70.3	35.2	63.6	35.8
HS91-4621	49.0	38.2	61.8	41.4	68.4	40.2	58.8	35.1
LN88-10534	58.5	32.5	61.3	37.9	71.0	42.5	66.7	34.8
LN89-295	55.9	35.5	56.7	55.8	68.4	46.0	67.7	41.2
LN89-334	57.4	42.7	56.0	44.8	72.0	38.2	65.8	33.1
LN89-3619	59.0	39.5	52.5	44.5	61.8	43.9	68.7	39.3
LN90-728	61.1	29.6	53.5	41.8	59.1	42.5	63.9	32.9
SL89-203	48.1	32.1	54.0	37.8	70.0	41.5	63.9	38.4
U91-3212	56.9	36.4	55.1	40.4	77.4	46.9	63.7	34.6
U91-3516	52.3	38.6	56.5	40.1	74.3	44.9	67.3	34.2
U91-3607	54.7	34.9	61.2	44.3	85.3	44.0	66.7	39.4
U91-3610	50.6	38.1	57.1	38.4	75.2	42.0	75.1	35.9
U92-3602	52.9	41.3	62.3	43.0	69.2	39.2	67.0	33.8
U92-3604	48.0	34.8	60.6	38.6	75.8	39.9	67.0	34.0
C.V. (%)	10.7	19.8	8.6	13.7	7.0	6.3	7.2	10.8
L.S.D. (5%)	9.0	12.2	8.4	9.1	7.9	4.1	7.7	4.0
Row Sp. (in.)	30	26	24	26	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3

* Data not included in the mean.

UNIFORM TEST III, 1994

YIELD (bu/a)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	57.6	36.5	61.1	48.8	68.8	59.3	68.9
Flyer (IV)	62.9	37.8	58.8	42.6	52.4	57.0	66.7
IA2007 (II)	61.0	30.7	55.8	37.8	62.3	50.9	69.5
Resnik (III)	68.5	38.6	56.1	41.0	61.1	53.7	64.2
Thorne (BSR)	67.0	32.0	53.7	43.4	68.8	61.3	67.7
A91-701007	66.8	32.8	58.1	47.3	71.7	61.2	66.5
A92-627035	65.7	36.8	58.1	44.6	68.0	55.5	70.9
A92-632035	64.7	35.4	56.6	44.6	64.7	57.6	65.4
A92-727017	68.2	41.7	61.3	44.4	70.3	58.3	65.6
C1875	66.2	33.7	60.6	43.4	64.3	59.7	70.2
HC89-1419 (dtl)	50.6	28.5	52.5	45.8	61.2	53.8	61.1
HC89-2232	65.1	35.9	59.6	43.6	64.2	60.3	62.4
HS90-3677	59.0	30.8	56.7	42.7	56.1	58.7	63.1
HS91-4523	66.0	40.9	55.9	44.5	59.9	59.7	64.5
HS91-4621	64.2	34.9	55.1	28.2	60.5	58.3	64.6
LN88-10534	64.2	41.2	60.9	47.4	60.0	56.1	65.4
LN89-295	64.3	51.8	62.3	51.3	69.6	59.1	67.6
LN89-334	64.6	39.7	62.8	51.6	65.4	59.4	69.2
LN89-3619	63.5	52.4	54.3	46.9	65.3	59.2	64.1
LN90-728	63.0	43.4	59.1	49.6	60.1	51.5	67.6
SL89-203	61.6	40.3	60.1	48.9	65.2	53.0	64.2
U91-3212	65.1	43.3	56.9	53.8	58.8	55.4	60.7
U91-3516	65.3	44.3	58.9	46.0	57.2	54.2	64.6
U91-3607	65.2	45.6	62.3	42.8	65.2	56.4	69.3
U91-3610	65.4	39.3	61.7	48.5	62.6	55.8	67.5
U92-3602	64.5	34.0	56.5	40.6	60.0	60.7	63.2
U92-3604	65.2	37.7	59.9	51.9	65.3	53.8	63.2
C.V. (%)	4.3	14.0	5.7	12.8	7.6	6.0	5.2
L.S.D. (5%)	4.5	10.1	9.5	16.4	13.7	5.6	5.4
Row Sp. (in.)	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1994

YIELD (bu/a)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	59.3	72.7	61.8	66.9	56.9
Flyer (IV)	47.0	74.4	55.1	78.8	48.9
IA2007 (II)	54.5	74.8	47.6	70.5	54.4
Resnik (III)	44.0	72.0	54.5	74.4	52.3
Thorne (BSR)	48.0	78.4	48.7	74.9	54.1
A91-701007	54.0	69.4	56.3	74.9	57.8
A92-627035	42.5	65.6	59.3	78.8	54.5
A92-632035	58.2	77.2	63.2	82.0	49.9
A92-727017	46.5	75.6	56.9	78.2	56.2
C1875	55.7	75.2	49.9	78.1	53.9
HC89-1419 (dtl)	54.3	71.0	38.9	67.4	46.1
HC89-2232	52.9	80.0	54.1	87.8	56.2
HS90-3677	51.0	76.6	56.7	70.3	52.7
HS91-4523	47.1	73.1	50.4	78.0	48.6
HS91-4621	45.6	77.9	60.3	78.0	53.5
LN88-10534	49.1	70.1	57.6	70.1	61.1
LN89-295	50.1	75.7	62.5	79.2	58.2
LN89-334	49.5	72.5	60.8	73.8	55.0
LN89-3619	52.5	77.7	57.4	78.5	52.5
LN90-728	47.0	71.8	47.1	73.1	58.6
SL89-203	51.9	73.0	45.1	76.9	54.7
U91-3212	43.6	74.2	53.5	75.1	61.2
U91-3516	55.1	74.0	51.0	74.6	51.5
U91-3607	59.7	74.4	60.3	78.8	55.4
U91-3610	43.8	72.8	45.4	72.8	53.0
U92-3602	49.0	71.6	58.8	72.4	53.0
U92-3604	47.5	76.2	53.7	79.8	55.1
C.V. (%)	9.6	4.5	12.4	5.7	6.7
L.S.D. (5%)	7.9	5.5	11.1	7.1	5.0
Row Sp. (in.)	15	7	30	24	30
Rows/Plot	6	8	4	4	4
Reps	3	3	3	3	3

UNIFORM TEST III, 1994

YIELD RANK

Strain	Yield Rank	George-town DE	Fair-field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	9	23	6	12	16	5	1
Flyer (IV)	20	4	18	4	27	26	12
IA2007 (II)	26	26	24	22	8	21	26
Resnik (III)	24	11	20	20	18	25	19
Thorne (BSR)	17	12	25	3	24	10	18
A91-701007	11	22	10	1	8	2	23
A92-627035	14	2	19	24	14	13	7
A92-632035	7	7	26	18	5	15	10
A92-727017	3	19	8	7	10	20	22
C1875	11	21	11	14	3	11	8
HC89-1419 (dtl)	27	20	14	16	11	27	15
HC89-2232	4	15	2	6	19	6	5
HS90-3677	25	24	23	17	16	23	15
HS91-4523	21	10	12	2	12	24	24
HS91-4621	23	16	22	12	21	7	19
LN88-10534	15	13	14	26	5	19	21
LN89-295	1	1	1	11	2	1	3
LN89-334	5	9	3	23	14	14	14
LN89-3619	5	3	13	8	21	16	27
LN90-728	19	25	9	9	20	12	4
SL89-203	22	27	14	25	1	21	17
U91-3212	9	8	5	21	7	18	9
U91-3516	13	5	21	27	23	8	6
U91-3607	2	14	4	15	13	17	2
U91-3610	16	17	17	10	25	8	10
U92-3602	18	6	27	19	26	3	25
U92-3604	8	18	6	5	4	4	13

UNIFORM TEST III, 1994

YIELD RANK

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	5	24	3	25	23	14	25	24
Flyer (IV)	14	10	17	2	22	21	18	2
IA2007 (II)	23	26	15	27	21	25	27	27
Resnik (III)	16	18	19	7	16	22	16	16
Thorne (BSR)	14	2	1	26	20	27	2	23
A91-701007	26	3	7	21	9	26	17	25
A92-627035	13	12	17	23	10	6	10	21
A92-632035	18	16	5	23	7	23	4	10
A92-727017	21	9	4	3	2	15	7	6
C1875	9	1	14	9	15	12	14	26
HC89-1419 (dtl)	27	27	16	16	27	18	23	8
HC89-2232	10	21	2	12	25	19	24	3
HS90-3677	24	5	8	18	14	17	13	9
HS91-4523	25	4	12	14	12	24	21	12
HS91-4621	18	13	8	11	18	11	26	13
LN88-10534	3	22	10	20	11	7	11	14
LN89-295	7	17	21	1	18	2	5	1
LN89-334	4	6	23	4	8	20	15	20
LN89-3619	2	8	27	5	23	5	3	5
LN90-728	1	25	26	10	26	8	20	22
SL89-203	20	23	25	20	13	10	20	7
U91-3212	5	15	24	13	3	1	21	15
U91-3516	12	11	22	15	6	3	6	17
U91-3607	8	18	11	6	1	4	12	4
U91-3610	17	14	20	18	5	9	1	11
U92-3602	11	7	6	7	16	15	8	19
U92-3604	21	20	13	17	4	13	9	18

UNIFORM TEST III, 1994

YIELD RANK

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	26	17	6	7	4	8	6
Flyer (IV)	22	14	14	23	27	15	11
IA2007 (II)	24	27	23	26	16	27	3
Resnik (III)	1	13	21	24	18	24	19
Thorne (BSR)	3	25	26	19	4	1	7
A91-701007	4	24	15	10	1	2	12
A92-627035	7	16	15	14	6	19	1
A92-632035	14	19	19	14	12	14	14
A92-727017	2	8	5	17	2	12	13
C1875	5	22	8	19	13	5	2
HC89-1419 (dtl)	27	23	27	13	17	22	26
HC89-2232	12	18	11	18	14	4	25
HS90-3677	25	26	18	22	26	11	24
HS91-4523	6	10	22	16	23	5	18
HS91-4621	18	20	24	27	19	12	16
LN88-10534	18	9	7	9	21	17	14
LN89-295	17	2	2	4	3	10	8
LN89-334	15	11	1	3	7	7	5
LN89-3619	20	1	25	11	8	9	21
LN90-728	21	6	12	5	20	26	8
SL89-203	23	4	9	6	10	25	19
U91-3212	12	7	17	1	24	20	27
U91-3516	9	5	13	12	25	21	16
U91-3607	10	3	2	21	10	16	4
U91-3610	8	12	4	8	15	18	10
U92-3602	16	21	20	25	21	3	22
U92-3604	10	15	10	2	8	22	22

UNIFORM TEST III, 1994

YIELD RANK

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	2	19	3	27	6
Flyer (IV)	20	12	14	5	25
IA2007 (II)	6	11	23	23	14
Resnik (III)	24	21	15	18	22
Thorne (BSR)	17	2	22	15	15
A91-701007	8	26	13	15	5
A92-627035	27	27	7	5	13
A92-632035	3	5	1	2	24
A92-727017	22	9	11	9	8
C1875	4	10	21	10	16
HC89-1419 (dtl)	7	24	27	26	27
HC89-2232	9	1	16	1	7
HS90-3677	12	6	12	24	20
HS91-4523	19	16	20	11	26
HS91-4621	23	3	5	11	17
LN88-10534	15	25	9	25	2
LN89-295	13	8	2	4	4
LN89-334	14	20	4	19	11
LN89-3619	10	4	10	8	21
LN90-728	20	22	24	20	3
SL89-203	11	17	26	13	12
U91-3212	26	14	18	14	1
U91-3516	5	15	19	17	23
U91-3607	1	12	5	5	9
U91-3610	25	18	25	21	18
U92-3602	16	23	8	22	18
U92-3604	18	7	17	3	10

UNIFORM TEST III, 1994

MATURITY (date)

Strain	Mean 21 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	2.9	5			4	3	3
Flyer (IV)	5.8	4			6	5	7
IA2007 (II)	-3.9	-1			-3	-4	-4
Resnik (III)	09/16	09/13			09/17	09/13	09/06
Thorne (BSR)	2.2	3			3	2	1
A91-701007	-2.0	0			-3	-4	-1
A92-627035	2.3	4			3	2	5
A92-632035	3.4	4			4	2	5
A92-727017	3.1	4			6	3	3
C1875	-1.0	2			0	-1	0
HC89-1419 (dtl)	3.7	1			6	2	5
HC89-2232	5.4	3			6	6	7
HS90-3677	0.1	2			2	0	-1
HS91-4523	-0.0	2			3	0	3
HS91-4621	1.2	1			2	2	0
LN88-10534	-0.5	0			0	0	1
LN89-295	4.3	6			2	6	8
LN89-334	2.0	2			0	2	4
LN89-3619	2.6	-4			3	1	2
LN90-728	-0.0	0			1	-1	3
SL89-203	1.4	-1			2	2	3
U91-3212	3.1	3			1	0	5
U91-3516	4.4	4			4	3	7
U91-3607	4.0	1			4	2	4
U91-3610	3.7	3			4	2	5
U92-3602	5.6	3			13	6	7
U92-3604	2.0	2			4	2	1
Date Planted	05/17	06/02			05/16	05/24	05/13
Days to Mature	121.9	103			124	112	116

UNIFORM TEST III, 1994

MATURITY (date)

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	2	1	9	0	3			1
Flyer (IV)	4	6	8	3	2			10
IA2007 (II)	-9	-4	-4	-3	-10			-7
Resnik (III)	09/17	09/21	09/21	09/13	09/24			09/02
Thorne (BSR)	2	2	7	0	-1			2
A91-701007	-6	-3	-1	-3	0			-3
A92-627035	1	2	1	0	2			4
A92-632035	2	1	4	2	1			7
A92-727017	2	4	5	0	2			7
C1875	-1	-2	-3	-1	0			-3
HC89-1419 (dtl)	3	4	9	1	4			4
HC89-2232	6	6	10	4	2			7
HS90-3677	0	2	0	-1	0			1
HS91-4523	-1	0	-1	-1	0			2
HS91-4621	2	3	1	-1	0			2
LN88-10534	-1	-4	0	3	-1			2
LN89-295	3	4	5	5	0			9
LN89-334	3	1	2	-2	1			6
LN89-3619	3	3	5	-1	3			9
LN90-728	1	0	1	-1	0			2
SL89-203	0	1	0	0	-1			5
U91-3212	2	1	1	-1	2			10
U91-3516	4	4	4	1	4			13
U91-3607	4	4	6	-1	1			12
U91-3610	3	4	4	0	3			15
U92-3602	6	4	10	3	5			6
U92-3604	1	0	2	0	1			6
Date Planted	05/19	05/11	05/20	05/19	05/24			05/12
Days to Mature	121	133	124	117	123			113

UNIFORM TEST III, 1994

MATURITY (date)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	4	6	2	1	10		1
Flyer (IV)	2	18	3	1	13		3
IA2007 (II)	-7	-1	-5	0	-4		-4
Resnik (III)	09/25	09/10	09/18	09/17	09/14		09/19
Thorne (BSR)	4	1	0	1	9		0
A91-701007	-2	-1	-4	0	1		-3
A92-627035	5	2	-1	0	8		1
A92-632035	3	6	1	1	14		-1
A92-727017	1	5	1	1	13		-1
C1875	-2	0	-2	0	1		-4
HC89-1419 (dtl)	-1	6	5	1	13		3
HC89-2232	3	8	3	2	11		2
HS90-3677	-1	2	-2	0	1		-3
HS91-4523	0	-1	-2	0	0		-2
HS91-4621	-2	2	0	0	5		-1
LN88-10534	-3	2	-3	0	-1		-2
LN89-295	5	8	0	1	4		2
LN89-334	2	6	-1	1	1		-2
LN89-3619	2	5	-1	1	13		2
LN90-728	-2	1	-3	0	1		-2
SL89-203	-1	5	-2	1	4		0
U91-3212	2	9	1	2	13		2
U91-3516	5	9	1	3	13		2
U91-3607	3	6	1	2	13		6
U91-3610	2	7	1	2	9		2
U92-3602	3	4	5	2	14		2
U92-3604	1	4	-1	1	5		-1
Date Planted	06/02	05/13	05/19	05/23	05/17		05/10
Days to Mature	115	120	122	117	120		132

UNIFORM TEST III, 1994

MATURITY (date)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	5	2	0	2	-4
Flyer (IV)	8	7	4	5	2
IA2007 (II)	-3	-2	-3	0	-3
Resnik (III)	09/13	09/12	09/19	09/28	09/29
Thorne (BSR)	3	4	2	2	0
A91-701007	-1	-2	-2	0	-3
A92-627035	2	1	-1	8	-1
A92-632035	5	5	1	5	0
A92-727017	2	5	2	2	-1
C1875	0	1	-3	0	-3
HC89-1419 (dtl)	7	6	1	0	-2
HC89-2232	9	7	4	5	3
HS90-3677	2	2	0	0	-3
HS91-4523	-1	0	0	0	-2
HS91-4621	4	4	1	2	-2
LN88-10534	-1	0	-1	0	-1
LN89-295	6	5	3	8	0
LN89-334	3	3	1	8	0
LN89-3619	3	3	1	2	0
LN90-728	0	0	-1	2	-3
SL89-203	4	4	0	5	-2
U91-3212	3	1	1	9	-2
U91-3516	5	2	1	5	-1
U91-3607	6	4	1	8	-2
U91-3610	2	2	2	8	-3
U92-3602	8	8	3	8	-3
U92-3604	3	4	0	11	-3
Date Planted	05/16	05/10	05/06	05/24	05/12
Days to Mature	120	125	136	127	140

UNIFORM TEST III, 1994

LODGING (score)

Strain	Mean 26 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	1.3	1.0	1.9	1.5	1.3	1.0	1.7
Flyer (IV)	1.5	2.0	2.1	1.3	1.8	1.0	2.0
IA2007 (II)	1.3	1.0	1.9	1.2	1.7	1.0	2.0
Resnik (III)	1.5	1.0	1.8	1.3	1.7	1.0	2.0
Thorne (BSR)	1.6	1.0	2.8	1.3	1.8	1.3	2.3
A91-701007	1.5	1.0	2.2	1.3	1.6	1.0	2.3
A92-627035	1.9	2.0	2.3	1.5	2.1	1.3	3.2
A92-632035	1.9	1.0	2.7	1.4	2.2	1.3	3.0
A92-727017	1.8	1.0	2.3	1.6	2.0	1.0	3.0
C1875	1.4	2.0	1.7	1.3	1.7	1.0	2.0
HC89-1419 (dtl)	1.2	1.0	2.0	1.4	1.3	1.0	1.5
HC89-2232	1.7	2.0	2.1	1.8	1.9	1.3	2.7
HS90-3677	1.4	1.0	1.9	1.2	1.7	1.0	2.2
HS91-4523	1.5	1.0	2.2	1.3	1.7	1.0	2.3
HS91-4621	1.6	2.0	1.9	1.5	1.6	1.3	2.7
LN88-10534	1.6	1.0	2.2	1.4	1.7	1.0	2.3
LN89-295	1.7	2.0	1.9	1.5	1.7	1.0	2.3
LN89-334	1.7	1.0	2.4	1.5	1.7	1.0	2.5
LN89-3619	2.0	2.0	2.6	1.6	2.0	1.3	3.2
LN90-728	1.7	3.0	2.6	1.5	1.8	1.0	2.3
SL89-203	1.3	1.0	1.7	1.3	1.4	1.0	2.2
U91-3212	2.0	1.0	2.5	1.7	2.2	2.0	2.8
U91-3516	1.9	2.0	2.4	1.6	2.0	1.3	3.2
U91-3607	1.7	1.0	2.1	1.4	1.9	1.0	2.8
U91-3610	1.9	2.0	3.0	1.5	2.1	1.3	3.0
U92-3602	2.8	2.0	4.6	2.1	3.1	2.7	4.5
U92-3604	1.4	1.0	1.7	1.4	1.6	1.0	2.5

UNIFORM TEST III, 1994

LODGING (score)

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	1.0	1.0	1.2	1.0	1.1	1.6	1.3	1.5
Flyer (IV)	1.0	1.0	2.3	1.0	1.9	1.2	2.1	1.5
IA2007 (II)	1.0	1.0	2.3	1.0	1.4	1.0	2.2	1.0
Resnik (III)	1.0	1.0	3.3	1.0	1.4	1.2	2.0	1.7
Thorne (BSR)	1.0	1.0	2.3	1.0	1.6	1.4	2.9	1.5
A91-701007	1.0	1.0	2.3	1.0	2.2	1.8	2.2	1.3
A92-627035	1.0	1.0	3.5	1.2	1.8	1.6	3.6	1.8
A92-632035	1.0	1.0	3.2	1.0	2.4	1.1	2.3	1.5
A92-727017	1.0	1.0	3.0	1.7	2.5	1.6	2.4	1.5
C1875	1.0	1.0	2.2	1.0	1.5	1.0	1.7	1.7
HC89-1419 (dtl)	1.0	1.0	1.7	1.0	1.0	1.1	1.2	1.5
HC89-2232	1.3	1.0	2.3	1.3	2.2	1.4	2.4	1.7
HS90-3677	1.0	1.0	2.0	1.0	1.4	1.0	2.2	1.7
HS91-4523	1.0	1.0	2.0	1.0	1.8	1.1	2.6	1.7
HS91-4621	1.0	1.0	3.0	1.0	2.0	1.5	2.8	1.5
LN88-10534	1.0	1.0	2.5	1.0	1.6	1.2	2.3	1.3
LN89-295	1.0	1.0	3.0	1.7	1.9	1.0	2.7	1.8
LN89-334	1.0	1.0	3.3	1.2	2.1	1.3	2.6	1.5
LN89-3619	1.0	1.0	3.3	1.2	2.8	2.0	2.5	1.5
LN90-728	1.0	1.0	3.3	1.0	1.8	1.5	1.8	1.3
SL89-203	1.0	1.0	2.0	1.0	1.2	1.2	1.8	1.7
U91-3212	1.0	1.0	3.3	1.3	2.8	1.7	2.7	1.5
U91-3516	1.0	1.0	3.0	1.2	2.0	1.8	2.5	1.3
U91-3607	1.0	1.0	2.7	1.3	2.1	1.6	2.2	1.5
U91-3610	1.0	1.0	3.3	1.2	2.4	2.0	3.2	1.5
U92-3602	1.7	1.0	3.5	2.3	3.0	2.7	3.3	2.0
U92-3604	1.0	1.0	2.0	1.0	1.7	1.1	2.1	2.0

UNIFORM TEST III, 1994

LODGING (score)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	1.0	1.0	1.0	1.0	1.0	1.0	2.8
Flyer (IV)	2.0	1.7	1.0	1.0	1.7	1.3	1.0
IA2007 (II)	1.7	1.0	1.0	1.0	1.0	1.3	1.0
Resnik (III)	2.0	1.0	1.0	1.0	1.0	1.7	1.0
Thorne (BSR)	2.2	1.3	1.0	1.0	1.7	2.7	1.1
A91-701007	2.3	1.3	1.0	1.7	1.0	1.7	1.3
A92-627035	2.7	1.7	1.0	1.0	1.7	3.0	1.3
A92-632035	2.3	1.8	1.0	1.0	2.3	3.7	2.0
A92-727017	2.7	1.5	1.0	1.0	1.7	3.3	2.0
C1875	1.8	1.3	1.0	1.0	1.0	1.0	1.0
HC89-1419 (dtl)	1.0	1.0	1.0	1.0	1.0	1.0	2.1
HC89-2232	2.3	1.2	1.0	1.0	1.7	2.3	1.7
HS90-3677	2.0	1.3	1.0	1.0	1.3	2.3	1.2
HS91-4523	2.2	1.2	1.0	1.0	1.3	2.0	1.0
HS91-4621	2.0	1.3	1.0	1.0	1.3	1.7	1.0
LN88-10534	2.3	1.3	1.0	1.0	1.0	1.7	1.2
LN89-295	2.2	1.8	1.0	1.0	1.3	2.3	1.0
LN89-334	2.7	2.0	1.0	1.0	1.0	1.7	1.4
LN89-3619	3.0	1.5	1.0	1.0	2.0	3.7	1.1
LN90-728	2.5	1.3	1.0	1.0	1.3	3.0	1.3
SL89-203	1.0	1.5	1.0	1.0	1.0	1.0	1.0
U91-3212	3.3	1.3	1.3	1.0	2.0	4.0	2.0
U91-3516	3.0	1.7	1.0	1.3	2.0	3.3	1.7
U91-3607	2.5	1.5	1.0	1.0	1.7	1.3	1.3
U91-3610	2.5	1.5	1.0	1.0	2.0	3.3	1.1
U92-3602	3.5	2.3	1.3	2.3	3.0	4.0	4.2
U92-3604	1.7	1.0	1.0	1.0	1.0	1.3	1.0

UNIFORM TEST III, 1994

LODGING (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	1.3	1.2	1.2	1.0	1.0
Flyer (IV)	1.4	2.0	1.1	1.7	2.0
IA2007 (II)	1.3	1.5	1.0	1.3	1.0
Resnik (III)	1.2	1.7	1.1	1.7	2.0
Thorne (BSR)	1.3	1.8	1.2	2.3	1.0
A91-701007	1.1	1.5	1.0	2.0	1.0
A92-627035	2.2	3.0	1.0	3.0	1.0
A92-632035	2.1	3.2	1.3	2.0	1.0
A92-727017	1.8	2.2	1.5	2.3	1.0
C1875	1.2	1.7	1.0	1.3	1.0
HC89-1419 (dtl)	1.3	1.2	1.1	1.0	1.0
HC89-2232	1.2	1.8	1.7	2.0	2.0
HS90-3677	1.5	1.5	1.1	1.3	1.0
HS91-4523	1.4	1.5	1.1	1.7	1.0
HS91-4621	1.5	2.0	1.1	1.7	1.0
LN88-10534	1.3	2.2	1.3	3.0	2.0
LN89-295	2.0	2.3	1.2	1.7	1.0
LN89-334	1.4	2.8	1.3	1.7	1.0
LN89-3619	1.7	3.0	1.4	2.3	1.0
LN90-728	1.3	2.7	1.3	2.0	1.0
SL89-203	1.1	1.5	1.0	1.0	1.0
U91-3212	1.8	2.7	1.2	3.0	1.0
U91-3516	2.0	3.3	1.3	2.3	1.0
U91-3607	1.5	3.0	1.3	3.0	1.0
U91-3610	1.9	2.7	1.0	2.0	1.0
U92-3602	2.2	4.2	3.3	4.0	1.0
U92-3604	1.0	1.8	1.2	2.0	1.0

UNIFORM TEST III, 1994

PLANT HEIGHT (inches)

Strain	Mean 26 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	24	16	30	32	31	22	22
Flyer (IV)	35	23	42	38	44	34	35
IA2007 (II)	32	16	39	36	44	30	29
Resnik (III)	32	20	39	36	41	30	34
Thorne (BSR)	32	22	40	36	42	32	29
A91-701007	34	18	41	37	46	35	36
A92-627035	33	23	38	36	43	33	36
A92-632035	35	24	43	37	44	33	36
A92-727017	35	20	44	37	41	33	33
C1875	31	21	37	36	40	30	31
HC89-1419 (dtl)	23	14	30	32	30	19	19
HC89-2232	38	21	47	39	44	40	38
HS90-3677	33	21	39	37	39	30	31
HS91-4523	35	22	40	40	44	34	36
HS91-4621	34	21	41	38	41	33	32
LN88-10534	35	21	43	36	46	35	36
LN89-295	34	21	40	37	42	35	36
LN89-334	33	21	37	36	40	35	35
LN89-3619	35	24	42	38	45	35	36
LN90-728	33	14	40	38	43	33	35
SL89-203	32	18	36	37	41	32	35
U91-3212	35	20	46	37	46	35	36
U91-3516	35	22	43	38	43	35	34
U91-3607	35	19	41	37	42	33	36
U91-3610	35	19	42	38	44	35	34
U92-3602	37	25	51	41	45	36	41
U92-3604	31	18	39	37	41	31	29

UNIFORM TEST III, 1994

PLANT HEIGHT (inches)

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	25	17	28	28	23	26	18	20
Flyer (IV)	32	29	39	39	41	34	38	27
IA2007 (II)	31	24	37	36	37	33	40	17
Resnik (III)	29	25	35	34	39	33	35	21
Thorne (BSR)	28	27	36	33	36	32	38	20
A91-701007	30	27	36	36	39	36	39	22
A92-627035	30	27	34	36	40	37	36	19
A92-632035	32	27	39	36	41	36	42	24
A92-727017	32	28	39	41	42	38	41	22
C1875	29	27	32	34	36	32	34	20
HC89-1419 (dtl)	21	16	27	25	22	25	18	22
HC89-2232	36	32	41	42	46	40	42	28
HS90-3677	30	26	36	37	37	35	42	20
HS91-4523	32	31	39	38	43	34	40	25
HS91-4621	31	29	36	39	40	36	35	23
LN88-10534	34	25	39	36	39	35	42	21
LN89-295	31	27	38	39	38	37	43	21
LN89-334	31	27	34	35	37	35	37	22
LN89-3619	34	27	37	39	41	36	40	23
LN90-728	33	24	35	36	37	35	37	22
SL89-203	28	26	35	35	36	34	37	21
U91-3212	33	27	39	40	43	38	41	20
U91-3516	32	29	37	38	42	38	39	22
U91-3607	34	29	37	41	39	38	38	25
U91-3610	32	30	38	36	42	36	39	23
U92-3602	36	30	41	39	43	38	39	26
U92-3604	28	24	34	34	37	31	38	21

UNIFORM TEST III, 1994

PLANT HEIGHT (inches)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	13	15	26	26	38	21	28
Flyer (IV)	34	28	40	37	45	32	36
IA2007 (II)	29	22	41	34	43	30	33
Resnik (III)	31	27	37	33	44	31	31
Thorne (BSR)	33	27	38	33	43	31	30
A91-701007	36	30	41	37	43	33	30
A92-627035	34	27	36	34	44	30	29
A92-632035	35	30	41	37	46	34	31
A92-727017	35	29	41	40	47	34	35
C1875	32	24	33	31	38	29	33
HC89-1419 (dtl)	13	14	23	27	37	21	26
HC89-2232	35	31	42	39	49	38	38
HS90-3677	31	26	37	36	42	33	29
HS91-4523	34	29	40	39	43	35	35
HS91-4621	33	30	39	34	42	32	32
LN88-10534	36	27	40	36	42	34	33
LN89-295	35	30	36	35	44	33	32
LN89-334	32	28	37	37	42	32	31
LN89-3619	36	27	40	37	44	34	30
LN90-728	35	27	40	38	43	33	31
SL89-203	31	29	35	35	43	30	31
U91-3212	34	28	38	43	45	35	32
U91-3516	34	28	37	39	42	35	32
U91-3607	33	29	41	37	45	33	33
U91-3610	33	28	39	40	45	35	33
U92-3602	38	29	45	41	43	36	34
U92-3604	29	26	36	32	41	30	29

UNIFORM TEST III, 1994

PLANT HEIGHT (inches)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	26	24	24	21	18
Flyer (IV)	32	35	29	35	30
IA2007 (II)	33	34	29	31	30
Resnik (III)	28	33	29	33	34
Thorne (BSR)	28	34	30	34	31
A91-701007	33	33	30	35	33
A92-627035	32	31	29	31	29
A92-632035	34	34	34	35	31
A92-727017	28	34	33	36	30
C1875	31	33	28	31	30
HC89-1419 (dtl)	23	27	17	21	19
HC89-2232	37	38	37	40	34
HS90-3677	31	34	29	33	31
HS91-4523	31	34	32	38	30
HS91-4621	29	35	32	36	32
LN88-10534	36	34	33	35	33
LN89-295	31	36	30	35	28
LN89-334	31	33	29	34	30
LN89-3619	32	34	32	37	30
LN90-728	31	33	27	34	32
SL89-203	33	34	27	32	30
U91-3212	29	35	31	37	30
U91-3516	34	32	29	35	32
U91-3607	34	35	30	37	30
U91-3610	31	33	31	35	32
U92-3602	35	35	32	40	30
U92-3604	28	32	26	35	27

UNIFORM TEST III, 1994

SEED QUALITY (score)

Strain	Mean 25 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	1.5	1.0	2.0	1.5	2.0	1.5	2.7
Flyer (IV)	1.4	1.0	2.0	1.5	1.5	1.5	2.2
IA2007 (II)	1.8	1.0	2.5	2.0	1.5	1.5	2.2
Resnik (III)	1.5	1.0	2.0	1.5	1.5	1.5	2.2
Thorne (BSR)	1.8	1.0	2.0	2.0	2.0	1.5	1.8
A91-701007	1.6	1.0	1.5	1.0	1.5	1.5	2.8
A92-627035	1.8	1.0	2.0	2.5	2.5	1.5	2.7
A92-632035	1.6	1.0	2.0	1.5	2.0	1.5	2.2
A92-727017	1.8	1.0	2.0	1.5	2.0	1.5	2.3
C1875	1.4	1.0	1.0	1.0	1.0	1.5	1.8
HC89-1419 (dtl)	1.6	1.0	2.0	2.0	1.0	1.5	1.8
HC89-2232	1.5	1.0	2.0	2.0	1.5	1.5	2.7
HS90-3677	1.5	1.0	1.5	1.0	1.0	1.5	1.8
HS91-4523	1.6	1.0	1.5	1.0	2.0	1.5	2.3
HS91-4621	1.5	1.0	1.0	1.5	1.5	1.5	2.0
LN88-10534	1.8	1.0	1.5	2.0	1.0	1.5	2.0
LN89-295	1.5	1.0	1.0	1.5	1.5	1.5	2.5
LN89-334	1.5	1.0	1.5	2.0	2.0	1.5	1.8
LN89-3619	1.6	1.0	2.0	1.5	1.5	1.5	2.0
LN90-728	1.5	1.0	2.0	2.0	1.5	1.5	2.3
SL89-203	1.4	1.0	1.5	1.5	1.5	1.5	2.2
U91-3212	1.6	1.0	2.0	1.5	2.0	1.5	2.0
U91-3516	1.7	1.0	2.0	2.0	2.0	1.7	2.0
U91-3607	1.8	1.0	2.0	2.0	1.5	1.5	2.3
U91-3610	1.7	1.0	1.5	1.5	2.0	1.7	2.5
U92-3602	1.6	1.0	2.0	1.5	2.0	1.5	3.0
U92-3604	1.5	1.0	2.0	1.5	1.5	1.5	1.8

UNIFORM TEST III, 1994

SEED QUALITY (score)

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	1.5	1.0	1.0	1.5	1.0		2.0	2.0
Flyer (IV)	1.7	1.0	1.0	1.0	2.0		2.0	1.0
IA2007 (II)	1.5	1.5	1.5	2.5	3.0		3.0	1.0
Resnik (III)	1.5	1.0	1.0	1.0	2.0		2.0	1.0
Thorne (BSR)	1.7	1.0	1.5	1.5	2.0		3.0	2.0
A91-701007	1.7	1.0	1.0	2.0	2.0		2.0	1.0
A92-627035	1.7	1.0	1.0	1.5	3.0		3.0	1.0
A92-632035	1.5	1.0	1.0	1.5	2.0		2.0	1.0
A92-727017	1.5	1.0	1.0	1.5	3.0		3.0	1.0
C1875	1.5	1.0	1.0	1.5	3.0		2.0	1.0
HC89-1419 (dtl)	1.5	1.0	1.0	1.5	2.0		3.0	1.0
HC89-2232	1.5	1.0	1.0	2.0	1.0		2.0	1.0
HS90-3677	1.5	1.0	1.0	2.0	2.0		2.0	1.0
HS91-4523	1.5	1.5	1.5	1.5	2.0		2.0	1.0
HS91-4621	1.7	1.0	1.0	1.5	2.0		2.0	1.0
LN88-10534	1.5	1.5	1.5	2.0	3.0		2.0	2.0
LN89-295	1.5	1.0	1.5	1.0	2.0		2.0	1.0
LN89-334	1.5	1.0	1.0	1.0	2.0		2.0	2.0
LN89-3619	1.5	1.0	1.0	2.0	2.0		2.0	2.0
LN90-728	1.5	1.0	1.5	1.5	2.0		2.0	1.0
SL89-203	1.5	1.0	1.0	1.0	2.0		2.0	1.0
U91-3212	1.5	1.0	1.5	2.0	2.0		3.0	1.0
U91-3516	1.7	1.0	1.5	2.0	3.0		2.0	2.0
U91-3607	2.0	1.0	1.0	2.0	2.0		3.0	1.0
U91-3610	1.5	1.0	1.0	2.0	3.0		2.0	3.0
U92-3602	1.7	1.0	1.0	1.5	2.0		2.0	2.0
U92-3604	1.5	1.0	1.0	1.5	2.0		2.0	2.0

UNIFORM TEST III, 1994

SEED QUALITY (score)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	1.0	2.0	2.0	2.0	2.0	1.0	1.0
Flyer (IV)	1.0	2.0	1.0	1.7	1.3	1.0	1.0
IA2007 (II)	1.8	2.0	2.0	2.0	2.3	2.3	1.0
Resnik (III)	1.2	1.0	2.7	2.0	2.0	1.0	1.0
Thorne (BSR)	1.8	2.0	2.7	2.7	2.7	1.3	1.0
A91-701007	1.3	1.0	2.3	2.0	1.7	1.0	1.0
A92-627035	1.5	2.0	2.0	2.3	2.0	1.0	1.0
A92-632035	1.3	2.0	2.0	2.3	2.0	1.0	1.0
A92-727017	1.8	3.0	2.7	2.0	2.0	1.0	1.0
C1875	1.3	1.0	2.3	1.7	2.0	1.0	1.0
HC89-1419 (dtl)	1.5	2.0	2.3	2.0	1.7	1.0	1.0
HC89-2232	1.2	2.0	1.7	1.7	1.3	1.0	1.0
HS90-3677	1.0	2.0	2.0	2.3	2.0	1.0	1.0
HS91-4523	1.7	2.0	2.3	2.0	2.0	1.0	1.0
HS91-4621	1.2	2.0	2.0	2.0	2.0	1.0	1.0
LN88-10534	1.7	2.0	2.0	2.7	2.0	1.0	2.0
LN89-295	1.0	2.0	2.0	2.0	1.7	1.0	1.0
LN89-334	1.2	2.0	2.0	2.0	1.7	1.0	1.0
LN89-3619	1.2	2.0	2.3	2.0	2.0	1.0	1.0
LN90-728	1.5	1.0	2.0	2.0	2.0	1.0	1.0
SL89-203	1.0	2.0	2.0	2.0	2.0	1.0	1.0
U91-3212	1.2	2.0	1.7	2.0	2.0	1.0	1.0
U91-3516	1.0	2.0	2.0	2.3	2.3	1.0	1.0
U91-3607	1.5	2.0	2.3	3.0	2.3	1.0	2.0
U91-3610	1.3	2.0	2.0	2.3	2.0	1.0	1.0
U92-3602	1.0	2.0	2.0	2.0	1.3	1.0	1.0
U92-3604	1.2	2.0	2.0	2.0	2.0	1.0	1.0

UNIFORM TEST III, 1994

SEED QUALITY (score)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	1.0	1.0	1.0	2.0	2.0
Flyer (IV)	1.0	1.0	1.0	1.0	2.0
IA2007 (II)	1.0	1.5	1.0	2.0	2.0
Resnik (III)	1.0	1.0	1.0	2.0	2.0
Thorne (BSR)	1.0	1.5	1.0	2.0	3.0
A91-701007	1.0	1.5	1.0	2.0	3.0
A92-627035	1.0	1.5	1.0	2.0	4.0
A92-632035	1.0	1.0	1.0	2.0	3.0
A92-727017	1.3	1.5	1.0	3.0	3.0
C1875	1.0	1.5	1.0	2.0	2.0
HC89-1419 (dtl)	1.0	1.0	1.0	2.0	2.0
HC89-2232	1.0	1.0	1.0	2.0	2.0
HS90-3677	1.0	1.0	1.0	2.0	2.0
HS91-4523	1.0	1.5	1.0	1.0	2.0
HS91-4621	1.0	1.0	1.0	2.0	2.0
LN88-10534	1.0	1.0	2.0	2.0	2.0
LN89-295	1.0	1.0	1.0	2.0	2.0
LN89-334	1.0	1.5	1.0	2.0	2.0
LN89-3619	1.0	1.0	1.0	2.0	3.0
LN90-728	1.0	1.0	1.0	1.0	2.0
SL89-203	1.0	1.0	1.0	1.0	2.0
U91-3212	1.0	1.0	1.0	2.0	3.0
U91-3516	1.0	1.5	1.0	1.0	2.0
U91-3607	1.0	1.5	1.0	2.0	2.0
U91-3610	1.0	1.0	1.0	2.0	3.0
U92-3602	1.0	1.5	1.0	1.0	3.0
U92-3604	1.0	1.0	1.0	2.0	2.0

UNIFORM TEST III, 1994

SEED SIZE (g/100)

Strain	Mean 24 Tests	George-town DE	Fair field IA	Gris-wold IA	Stuart IA	Newton IL	Ridg-way IL
Charleston (dtl)	15.7		15.6	16.1	16.2	15.1	14.7
Flyer (IV)	14.5		15.2	13.9	15.9	12.9	12.9
IA2007 (II)	17.3		17.5	16.4	18.0	17.2	14.9
Resnik (III)	15.1		15.2	14.8	16.7	13.6	12.7
Thorne (BSR)	17.7		18.0	17.6	19.2	16.8	15.5
A91-701007	16.2		16.0	17.0	17.6	16.0	14.7
A92-627035	15.6		16.4	15.4	17.0	15.3	13.5
A92-632035	15.4		15.1	14.7	16.2	14.2	14.5
A92-727017	15.5		15.6	15.2	17.3	14.4	13.2
C1875	15.7		15.8	14.7	17.1	15.7	13.9
HC89-1419 (dtl)	16.8		16.6	17.8	18.2	15.3	14.8
HC89-2232	14.8		15.2	13.7	16.4	13.7	13.1
HS90-3677	15.9		16.0	15.6	17.4	14.3	13.6
HS91-4523	18.8		19.0	18.0	20.8	17.3	16.9
HS91-4621	15.7		16.0	15.5	17.6	15.3	14.6
LN88-10534	15.8		15.5	14.1	17.1	14.5	13.6
LN89-295	18.1		18.2	17.6	19.2	17.5	17.3
LN89-334	14.7		15.6	13.8	16.2	13.0	13.2
LN89-3619	16.0		15.8	16.4	17.2	14.8	13.0
LN90-728	16.6		17.4	16.4	19.0	15.8	15.6
SL89-203	14.9		14.9	14.2	16.0	13.7	13.8
U91-3212	16.7		17.1	17.2	17.8	15.2	15.4
U91-3516	17.9		18.2	18.8	19.2	15.9	16.3
U91-3607	17.1		17.8	17.6	19.0	14.5	14.9
U91-3610	16.8		17.3	16.4	18.5	15.3	15.0
U92-3602	16.8		17.8	17.6	18.8	15.6	14.0
U92-3604	14.9		14.4	15.0	16.2	13.5	13.0

UNIFORM TEST III, 1994

SEED SIZE (g/100)

Strain	Urbana IL	Bluff-ton IN	Lafay-ette IN	Vince-nnes IN	Man-hattan KS	Pow-hattan KS	Topeka KS	Lexing-ton KY
Charleston (dtl)	16.4	14.5	17.1	15.1	15.8		16.4	15.3
Flyer (IV)	15.2	13.7	17.1	13.9	14.6		13.7	14.4
IA2007 (II)	16.9	19.0	19.3	15.3	19.2		18.0	18.6
Resnik (III)	15.2	14.5	16.8	13.9	15.9		14.8	14.8
Thorne (BSR)	18.2	19.0	19.5	16.1	19.1		17.4	14.9
A91-701007	15.8	17.0	18.0	16.4	16.3		16.2	15.7
A92-627035	15.6	15.2	16.6	14.8	17.7		17.2	14.6
A92-632035	15.8	14.6	17.3	14.2	16.8		14.5	15.6
A92-727017	15.9	15.5	17.1	14.8	17.2		16.5	15.7
C1875	16.5	15.8	17.3	14.6	17.1		14.1	14.6
HC89-1419 (dtl)	18.2	14.8	17.6	16.4	18.2		17.6	18.4
HC89-2232	15.3	15.1	16.3	13.9	15.6		14.5	14.9
HS90-3677	16.8	15.9	18.2	14.7	17.5		15.6	15.8
HS91-4523	19.4	18.8	20.4	17.4	20.2		18.5	17.8
HS91-4621	16.5	14.5	17.2	14.7	16.9		16.0	15.3
LN88-10534	17.4	14.9	16.8	17.5	17.1		15.4	16.9
LN89-295	18.1	16.5	21.1	17.7	18.9		17.7	19.3
LN89-334	15.4	14.3	16.0	12.9	14.6		15.7	14.8
LN89-3619	17.7	16.3	17.7	14.1	14.1		15.1	18.8
LN90-728	17.3	15.0	18.3	16.4	16.4		14.9	15.6
SL89-203	15.3	14.5	16.2	13.4	15.4		14.9	15.9
U91-3212	18.4	15.2	17.2	15.8	18.8		17.6	17.0
U91-3516	18.8	16.7	19.2	15.9	20.6		18.0	20.6
U91-3607	18.7	16.0	19.0	14.5	19.8		17.2	16.9
U91-3610	16.5	16.2	18.1	15.5	19.5		18.1	18.0
U92-3602	16.6	15.3	18.8	17.0	17.4		17.0	16.2
U92-3604	15.9	15.7	16.5	13.7	14.7		15.7	14.6

UNIFORM TEST III, 1994

SEED SIZE (g/100)

Strain	Queens-town MD	Colum-bia MO	David City NE	Falls City NE	Tekamah NE	Adel-phia NJ	Hoyt-ville OH
Charleston (dtl)	14.8	15.0	16.2	15.2	17.6	15.7	16.1
Flyer (IV)	14.2	11.0	15.8	13.2	15.8	15.0	15.0
IA2007 (II)	17.9	13.0	16.6	15.5	18.6	17.7	19.0
Resnik (III)	16.2	11.0	16.5	13.8	16.1	15.3	16.2
Thorne (BSR)	19.2	12.0	18.2	15.2	19.1	19.0	19.5
A91-701007	17.2	11.0	16.8	13.7	17.9	17.3	17.6
A92-627035	16.0	11.0	16.7	14.4	17.5	15.3	16.3
A92-632035	16.6	11.0	16.3	13.5	16.7	15.3	16.4
A92-727017	16.5	12.0	15.7	13.5	16.3	16.0	17.1
C1875	16.1	12.0	17.3	14.7	17.7	16.0	17.6
HC89-1419 (dtl)	15.5	14.0	17.0	15.7	19.9	16.0	16.9
HC89-2232	15.2	11.0	15.3	12.3	15.7	16.0	15.5
HS90-3677	16.9	11.0	17.0	14.3	16.6	16.3	16.3
HS91-4523	20.2	13.0	19.5	17.2	20.6	20.3	20.0
HS91-4621	16.6	11.0	16.9	13.9	17.1	16.7	15.9
LN88-10534	16.0	14.0	16.6	14.6	16.9	15.3	17.1
LN89-295	18.4	14.0	19.6	16.4	19.6	17.7	18.5
LN89-334	15.2	11.0	16.0	13.8	16.6	14.7	16.3
LN89-3619	16.2	14.0	16.5	14.5	18.1	16.3	16.9
LN90-728	16.4	14.0	18.4	15.5	18.4	16.3	17.7
SL89-203	15.5	12.0	15.8	13.5	16.5	15.3	16.1
U91-3212	16.9	15.0	17.6	16.5	18.7	16.0	17.0
U91-3516	17.9	15.0	19.0	17.0	20.1	16.0	18.8
U91-3607	17.0	13.0	18.5	15.8	19.5	16.0	18.2
U91-3610	16.7	13.0	17.8	16.2	19.0	16.0	18.4
U92-3602	18.0	11.0	18.0	15.4	19.0	17.7	18.3
U92-3604	15.8	11.0	15.9	13.7	16.4	15.3	15.5

UNIFORM TEST III, 1994

SEED SIZE (g/100)

Strain	Mt. Orab OH	So. Charleston OH	Wooster OH	Landis-ville PA	Elk Point SD
Charleston (dtl)	15.1	15.2	16.8	16.5	15.0
Flyer (IV)	14.9	14.3	15.7	15.7	14.0
IA2007 (II)	17.0	17.1	18.0	18.2	17.0
Resnik (III)	14.6	15.3	15.8	17.1	15.0
Thorne (BSR)	17.7	17.2	18.6	19.6	17.0
A91-701007	14.6	14.6	17.0	17.8	16.0
A92-627035	15.1	13.3	16.7	16.9	15.0
A92-632035	15.8	14.9	16.7	17.2	15.0
A92-727017	15.5	14.7	15.3	17.6	14.0
C1875	15.9	16.2	16.4	16.1	14.0
HC89-1419 (dtl)	16.4	16.4	16.5	17.0	17.0
HC89-2232	14.2	14.1	16.4	16.2	15.0
HS90-3677	16.6	15.7	17.1	16.7	15.0
HS91-4523	18.1	17.5	19.9	22.2	17.0
HS91-4621	14.8	15.7	15.8	16.8	15.0
LN88-10534	14.0	14.2	16.6	16.5	16.0
LN89-295	18.1	17.5	19.9	19.2	16.0
LN89-334	14.5	14.0	16.6	14.7	13.0
LN89-3619	16.2	15.7	16.9	16.0	15.0
LN90-728	16.1	15.8	17.6	17.9	16.0
SL89-203	14.7	14.9	14.5	16.3	15.0
U91-3212	14.6	15.0	16.7	17.2	16.0
U91-3516	17.6	16.4	18.2	19.2	17.0
U91-3607	17.6	16.3	18.1	18.8	16.0
U91-3610	16.0	15.3	16.7	18.5	16.0
U92-3602	17.0	16.3	17.0	19.3	15.0
U92-3604	14.5	14.6	15.8	17.2	13.0

UNIFORM TEST III, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Charleston (dtl)	42.4	42.9	41.0	43.6	42.0
Flyer (IV)	42.3	41.3	42.6	42.5	42.7
IA2007 (II)	40.6	40.7	39.0	41.9	40.6
Resnik (III)	41.8	41.3	40.7	43.3	41.8
Thorne (BSR)	42.6	42.9	41.0	43.5	42.8
A91-701007	41.7	42.4	39.7	41.9	42.9
A92-627035	40.9	41.0	38.9	41.8	41.7
A92-632035	41.1	41.1	40.2	40.7	42.4
A92-727017	41.5	40.8	40.0	42.5	42.6
C1875	41.9	41.6	40.5	42.6	42.9
HC89-1419 (dtl)	42.8	42.7	41.4	43.4	43.7
HC89-2232	41.9	41.9	40.7	42.8	42.0
HS90-3677	42.3	42.2	40.9	43.7	42.5
HS91-4523	42.2	41.8	40.8	43.8	42.4
HS91-4621	42.4	42.0	41.8	42.9	43.0
LN88-10534	41.9	42.1	40.3	42.6	42.4
LN89-295	41.1	40.4	39.2	42.5	42.3
LN89-334	42.1	42.0	40.6	43.2	42.5
LN89-3619	41.5	41.0	39.6	42.9	42.5
LN90-728	42.6	43.0	40.8	44.1	42.3
SL89-203	41.2	41.4	39.7	42.4	41.3
U91-3212	41.4	41.1	39.5	42.7	42.4
U91-3516	42.4	42.4	41.2	43.4	42.4
U91-3607	41.7	41.6	41.2	42.1	42.0
U91-3610	41.8	41.7	40.1	42.9	42.5
U92-3602	42.6	42.1	41.7	43.2	43.3
U92-3604	43.5	42.5	42.3	44.3	45.0

UNIFORM TEST III, 1994

OIL (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Charleston (dtl)	20.0	19.8	21.0	20.0	19.0
Flyer (IV)	20.5	20.4	20.9	20.3	20.2
IA2007 (II)	20.6	20.1	21.4	20.6	20.2
Resnik (III)	20.6	20.2	21.1	20.6	20.5
Thorne (BSR)	20.3	20.4	21.0	20.3	19.6
A91-701007	19.7	19.9	20.4	19.2	19.4
A92-627035	20.7	20.6	21.4	20.4	20.5
A92-632035	20.1	19.9	20.7	20.2	19.4
A92-727017	20.1	20.2	20.3	20.1	19.8
C1875	20.1	20.0	20.5	20.3	19.7
HC89-1419 (dtl)	20.0	20.0	20.7	19.9	19.5
HC89-2232	20.2	20.0	20.7	20.2	19.9
HS90-3677	20.6	20.6	21.1	20.3	20.2
HS91-4523	20.5	20.4	21.1	19.9	20.5
HS91-4621	20.6	20.9	20.7	20.6	20.3
LN88-10534	19.9	19.9	20.4	19.4	19.9
LN89-295	20.2	19.9	20.7	20.1	20.0
LN89-334	20.3	19.9	20.9	20.3	20.2
LN89-3619	21.1	20.8	21.7	21.3	20.7
LN90-728	19.9	19.8	20.5	19.6	19.6
SL89-203	20.6	20.6	21.2	20.5	20.2
U91-3212	20.6	20.5	20.9	20.5	20.3
U91-3516	20.8	21.0	21.5	20.5	20.1
U91-3607	21.0	20.8	21.5	21.0	20.6
U91-3610	20.7	20.3	21.3	20.7	20.5
U92-3602	19.5	19.7	19.8	19.5	18.8
U92-3604	20.1	19.6	20.4	20.4	20.0

PRELIMINARY TEST IIIA, 1994

Strain	Parentage	Generation Composited	Unique Traits
Flyer (IV)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	BC3 F3	Rps1-k
A93-652026	LN86-983 x Marcus	F5	BSR resis.
A93-752035	Asgrow A3935 x LN86-983	F5	BSR resis.
A93-754009	Asgrow A3935 x Northrup King S19-90	F5	
A93-754022	Asgrow A3935 x Marcus	F5	
A93-754024	A86-301024 x Kenwood	F5	
A93-754027	A86-301024 x Marcus	F5	
A93-754028	A86-301024 x Marcus	F5	
A93-754037	A86-301024 x Kenwood	F5	
A93-754052	Asgrow A3935 x A86-301024	F5	
C1887	PRX305-10 x Bass	F5	Rps1-k, Het. Rps6
C1888	PRX305-10 x Bass	F5	Rps1-k, Rps6
HC89-2436	HC80-1944 x Asgrow A3127	F5	Dt1
HC90-2834	Hoyt x Resnik	F5	Dt1
HS91-4849	GR8936 x (HM8580 x GR8936)	BC1 F5	
HS92-2658	HS87-5114 x HS85-5755	F5	
HS92-2659	HS87-5114 x HS85-5755	F5	
HS92-2683	GR8936 x (HM8580 x GR8936)	BC1 F5	
HS92-2684	GR8936 x (HM8580 x GR8936)	BC1 F5	
HS92-2716	HM8580 x Mayes	F5	
K1278	Calland x (Calland x PI 167.043)	F5	Chlo. tol.
K1279	Sparks x (Sparks x PI 167.008)	F5	Chlo. tol.
K1280	Sparks x (Calland x A7)	F5	Chlo. tol.
K1281	Elgin x (A7 x Asgrow A3127)	F5	Chlo. tol.
K1282	Coker 393 x Sherman	F5	Chlo. tol.
K1283	Coker 393 x Hamilton	F5	Chlo. tol.
K1284	Sherman x K1154	F5	Chlo. tol.
K1285	Asgrow A4595 x K1148	F5	Chlo. tol.
K1286	P6123-27 x Coker 393	F5	Chlo. tol.
LN90-143	Sherman x Resnik	F5	
LN90-2265	LNX8401 x LN82-4858	F5	
LN90-3364	LN84-3897 x Resnik	F5	
LN90-3502	LN84-3897 x Asgrow A3733	F5	
LN91-662	Sherman x LNX8502	F5	
LN91-675	Sherman x LNX8502	F5	
LN91-823	Sherman x LNX8513	F5	
LN91-967	Sherman x LNX8513	F5	
LN91-1733	Asgrow A3733 x Resnik	F5	

PRELIMINARY TEST IIIA, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR-Boone Plant n %	BSR-Boone Stem n %
Flyer (IV)	PTTIYBlI	3.7	1	95.0	57.5
IA2007 (II)	PTBIYBrI	4.3	1	100.0	79.2
Resnik (III)	PTTSYBlI	4.2	1	100.0	92.4
A93-652026	WGTDYBfI	3.7	1	35.0	13.7
A93-752035	PTTDYBlI	4.0	2	80.0	25.7
A93-754009	PTB+TDYBlI	3.0	2	85.0	45.5
A93-754022	PTBDYBlI	4.5	1	80.0	44.4
A93-754024	PTB+TDYBrI	4.2	1	95.0	61.5
A93-754027	WTB+TDYBrI	4.2	2	95.0	51.1
A93-754028	WGBDYBfI	4.3	2	85.0	53.4
A93-754037	PTBDYBlI	4.3	1	95.0	58.1
A93-754052	PG+TBDYBlI	3.5	1	100.0	76.9
C1887	PTTIYBlI	3.8	1	85.0	52.3
C1888	P+WTTIYBlI	4.2	2	80.0	52.4
HC89-2436	PTTIYBlI	4.2	1	95.0	39.6
HC90-2834	PTTSYBlI	4.0	1	100.0	81.1
HS91-4849	P+WTBIYBlI	4.0	1	100.0	74.5
HS92-2658	PTBIYBlI	3.2	2	85.0	56.9
HS92-2659	PTBIYBlI	3.2	2	100.0	72.7
HS92-2683	WTTIYBlI	4.3	1	100.0	75.2
HS92-2684	WTTDYBlI	4.3	1	100.0	70.9
HS92-2716	PGBSYIbI	4.2	1	80.0	43.5
K1278	WTTDYBlI	2.7	2	85.0	40.2
K1279	PTTIYBlI	3.2	2	85.0	41.7
K1280	WTBIYBlI	3.0	2	95.0	57.1
K1281	PGTDYYI	2.5	1	100.0	74.6
K1282	PGTDYIbI	3.2	1	95.0	62.7
K1283	WTTSYBlI	3.7	1	95.0	68.5
K1284	PGTSYBfI	4.0	1	95.0	50.6
K1285	PGTDYIbI	3.7	1	70.0	34.4
K1286	P+WTTDYBlI	3.0	1	95.0	55.2
LN90-143	P+WTBrDYBrI	4.2	2	85.0	58.2
LN90-2265	PGTSYIbI	3.8	1	95.0	70.5
LN90-3364	WTTDYBlI	4.7	1	90.0	60.9
LN90-3502	WTTDYBlI	4.3	1	100.0	73.1
LN91-662	WGBrIYBfI	3.8	1	100.0	78.6
LN91-675	WGBrIYBfI	3.8	1	95.0	66.8
LN91-823	WGBrSYBfI	3.3	2	100.0	72.2
LN91-967	PGBrDYIbI	4.0	1	95.0	54.3
LN91-1733	PTTDYBlI	4.3	1	85.0	58.2

PRELIMINARY TEST IIIA, 1994

DISEASE DATA

Strain	PR Custar Root Rot Race 25	PR Ames Race 4	PR Lafayette Race 7	PS Laf. a %
Flyer (IV)	3.5	R	R	8
IA2007 (II)	3.7	S	R	6
Resnik (III)	3.7	R	R	6
A93-652026	4.3	S	S	26
A93-752035	3.8	S	S	1
A93-754009	3.9	S	R	7
A93-754022	4.0	S	S	3
A93-754024	3.4	S	R	5
A93-754027	7.8	S	S	11
A93-754028	4.9	S	S	11
A93-754037	3.9	S	S	2
A93-754052	3.2	S	S	5
C1887	3.3	R	R	13
C1888	3.7	R	R	1
HC89-2436	5.0	S	S	9
HC90-2834	3.3	S	S	11
HS91-4849	3.0	R	R	10
HS92-2658	3.5	S	S	13
HS92-2659	3.3	S	S	14
HS92-2683	3.0	R	R	14
HS92-2684	3.3	R	R	18
HS92-2716	3.0	R	R	19
K1278	3.9	S	S	14
K1279	3.6	S	S	6
K1280	3.1	S	S	3
K1281	4.5	S	S	10
K1282	3.9	S	S	3
K1283	3.8	S	S	4
K1284	3.7	S	S	5
K1285	4.0	S	S	21
K1286	3.6	S	S	1
LN90-143	3.6	R	R	4
LN90-2265	4.3	H	S	24
LN90-3364	3.6	R	R	6
LN90-3502	4.2	S	S	33
LN91-662	5.3	S	S	9
LN91-675	4.1	S	S	8
LN91-823	4.4	S	S	23
LN91-967	4.1	S	S	27
LN91-1733	3.4	R	R	5

PRELIMINARY TEST IIIA, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 9 g/100	Composition Protein 4 %	 Oil 4 %
Flyer (IV)	60.5	7	6.6	1.4	37	1.5	15.4	42.2	20.6
IA2007 (II)	56.4	34	-4.4	1.2	36	2.0	18.0	40.4	20.5
Resnik (III)	59.0	12	09/17	1.5	35	1.7	16.0	41.8	20.7
A93-652026	58.0	18	-4.2	1.7	33	1.7	15.8	39.8	20.5
A93-752035	59.7	11	5.1	1.5	37	1.6	15.6	41.6	21.0
A93-754009	60.1	10	7.3	1.6	38	1.9	18.2	41.3	20.2
A93-754022	61.2	5	7.6	1.6	36	1.9	16.5	42.4	20.4
A93-754024	53.1	38	6.4	1.7	41	1.6	16.9	42.3	19.6
A93-754027	56.8	30	2.4	1.5	37	2.0	17.3	40.5	20.2
A93-754028	60.4	8	2.1	1.6	38	1.9	17.0	39.3	20.1
A93-754037	58.1	16	3.2	2.4	41	1.8	17.7	39.8	20.2
A93-754052	57.6	20	5.4	2.1	41	1.6	18.2	40.3	20.1
C1887	58.7	13	2.0	1.5	37	2.0	19.3	41.6	20.7
C1888	57.6	20	0.0	1.8	38	1.9	17.8	41.1	20.3
HC89-2436	60.4	8	6.4	1.8	40	1.4	14.8	42.0	20.2
HC90-2834	57.1	25	2.2	1.6	37	1.7	15.2	41.4	20.4
HS91-4849	57.1	25	4.6	1.9	41	1.9	20.2	42.5	20.3
HS92-2658	57.1	25	-1.7	1.6	39	1.7	17.3	42.4	20.1
HS92-2659	56.8	30	-0.2	1.8	41	1.7	16.6	41.3	20.5
HS92-2683	62.1	2	3.3	1.8	38	1.7	17.7	42.2	21.0
HS92-2684	61.7	4	3.3	1.8	39	1.6	17.0	41.9	21.0
HS92-2716	56.6	33	0.4	1.4	37	1.6	17.6	40.4	20.8
K1278	56.1	35	8.4	2.0	44	1.6	19.8	41.3	20.5
K1279	54.6	37	7.1	1.5	39	1.8	16.0	41.7	20.2
K1280	57.2	23	7.6	2.3	44	2.1	20.3	41.1	19.7
K1281	48.3	40	2.0	2.0	41	1.9	15.8	43.8	19.1
K1282	54.7	36	11.3	2.0	41	1.6	15.9	40.6	21.2
K1283	57.0	28	7.2	2.1	38	1.4	16.3	40.8	20.7
K1284	52.2	39	8.8	2.1	39	1.8	16.3	41.9	20.2
K1285	57.5	22	12.1	2.0	43	1.5	15.5	40.9	20.4
K1286	57.9	19	10.8	1.8	39	1.6	16.4	40.8	20.4
LN90-143	58.1	16	-2.9	1.4	34	1.8	18.1	42.2	20.8
LN90-2265	57.0	28	-3.8	1.5	34	1.9	18.9	41.5	20.1
LN90-3364	62.4	1	8.4	1.5	39	1.6	15.6	41.1	20.7
LN90-3502	58.4	15	-0.4	1.3	35	1.8	17.9	41.7	20.3
LN91-662	58.7	13	2.0	1.8	36	1.7	17.5	41.5	20.7
LN91-675	61.2	5	2.3	1.9	35	1.9	17.3	41.7	20.7
LN91-823	57.2	23	0.3	1.7	35	1.7	17.1	41.1	20.1
LN91-967	56.7	32	-1.7	2.0	38	1.8	18.0	41.1	20.0
LN91-1733	61.9	3	7.6	1.6	38	1.5	16.5	42.4	20.9

123.6 Days After Planting

PRELIMINARY TEST IIIA, 1994

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	60.5	60.4	58.9	54.4	65.1	69.2
IA2007 (II)	56.4	55.1	59.9	48.1	58.5	66.9
Resnik (III)	59.0	54.7	61.5	54.0	57.4	78.1
A93-652026	58.0	62.7	66.9	50.2	50.0	72.1
A93-752035	59.7	64.2	61.9	57.9	65.0	68.5
A93-754009	60.1	64.9	61.8	58.8	67.4	69.0
A93-754022	61.2	59.5	65.1	56.1	62.7	74.8
A93-754024	53.1	53.5	46.2	44.1	62.5	66.8
A93-754027	56.8	61.2	63.2	46.4	67.4	70.7
A93-754028	60.4	62.9	59.7	56.6	65.3	69.3
A93-754037	58.1	55.5	55.9	54.7	68.0	66.1
A93-754052	57.6	53.1	58.5	53.9	63.6	65.0
C1887	58.7	55.5	63.7	50.1	63.7	71.0
C1888	57.6	61.1	59.3	55.4	63.8	64.4
HC89-2436	60.4	62.8	60.6	60.8	55.6	64.4
HC90-2834	57.1	52.6	60.6	49.0	57.7	68.9
HS91-4849	57.1	59.6	59.3	47.6	66.0	66.4
HS92-2658	57.1	53.8	59.4	48.4	58.5	68.4
HS92-2659	56.8	55.8	58.3	45.6	65.2	63.0
HS92-2683	62.1	61.7	60.1	54.1	63.5	75.4
HS92-2684	61.7	65.2	62.3	55.7	66.0	67.5
HS92-2716	56.6	56.4	58.8	48.9	53.5	67.1
K1278	56.1	54.1	57.2	55.5	68.0	56.7
K1279	54.6	54.3	50.3	48.4	58.7	63.4
K1280	57.2	51.8	56.2	54.8	58.9	70.0
K1281	48.3	42.7	40.3	43.7	52.5	64.1
K1282	54.7	59.5	50.5	51.6	61.0	67.3
K1283	57.0	57.3	54.1	52.6	63.4	65.8
K1284	52.2	51.7	46.2	45.1	55.1	59.9
K1285	57.5	54.7	57.1	51.7	71.2	64.7
K1286	57.9	56.0	65.2	54.3	70.7	65.2
LN90-143	58.1	63.3	58.3	51.5	58.0	69.1
LN90-2265	57.0	58.9	65.4	46.8	60.2	66.1
LN90-3364	62.4	55.7	65.2	49.7	71.6	71.3
LN90-3502	58.4	57.6	59.1	46.4	64.4	68.7
LN91-662	58.7	62.6	60.2	50.3	53.2	74.2
LN91-675	61.2	63.1	59.7	51.5	55.3	85.8
LN91-823	57.2	61.3	53.8	49.6	59.0	70.0
LN91-967	56.7	59.2	56.6	51.7	51.8	64.7
LN91-1733	61.9	54.7	65.0	56.1	64.8	73.2
C.V. (%)		7.2	7.3	8.4	6.7	4.7
L.S.D. (5%)		8.3	8.5	8.8	8.4	6.4
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 1994

YIELD (bu/a)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	47.5	58.0	55.8	67.0	69.1
IA2007 (II)	25.4	57.0	57.0	66.6	69.7
Resnik (III)	37.6	63.1	54.4	63.4	65.3
A93-652026	26.6	58.5	64.6	56.6	71.9
A93-752035	35.5	51.8	57.1	63.2	72.2
A93-754009	41.2	55.1	64.9	47.4	70.9
A93-754022	37.8	61.5	59.7	63.0	71.9
A93-754024	37.8	54.5	45.3	60.3	60.4
A93-754027	26.3	63.6	56.2	40.6	72.7
A93-754028	34.4	61.4	60.7	56.3	77.3
A93-754037	41.7	54.9	55.2	62.6	66.1
A93-754052	38.7	52.6	50.5	66.6	73.2
C1887	37.8	57.4	54.6	63.1	70.3
C1888	36.7	53.0	56.6	58.5	67.4
HC89-2436	47.7	59.8	62.2	57.2	72.9
HC90-2834	39.8	56.1	56.1	57.4	72.7
HS91-4849	41.6	52.4	51.0	59.8	67.4
HS92-2658	30.9	60.6	57.5	64.4	68.8
HS92-2659	37.1	55.7	50.7	63.2	72.9
HS92-2683	44.7	61.6	55.4	67.8	76.3
HS92-2684	42.5	60.4	49.8	72.5	75.2
HS92-2716	37.0	57.4	55.6	66.4	65.2
K1278	42.1	48.4	51.5	64.0	63.2
K1279	41.8	50.3	54.1	56.5	68.2
K1280	39.9	50.0	58.0	60.0	72.2
K1281	30.2	50.8	41.5	50.9	66.3
K1282	43.1	48.8	52.3	47.2	66.1
K1283	42.7	54.0	53.3	61.2	65.4
K1284	40.9	52.6	51.8	54.6	64.4
K1285	42.2	48.2	52.5	63.8	69.2
K1286	31.4	50.6	47.1	68.4	69.7
LN90-143	34.0	52.9	61.6	63.1	69.6
LN90-2265	36.4	59.6	59.4	53.8	63.8
LN90-3364	48.4	61.1	61.5	64.7	74.3
LN90-3502	41.1	60.1	61.0	59.9	65.9
LN91-662	38.5	61.0	58.4	59.4	68.9
LN91-675	40.7	60.2	65.2	64.7	65.4
LN91-823	38.9	55.4	64.8	58.6	60.9
LN91-967	36.6	57.1	59.7	63.1	66.0
LN91-1733	55.4	58.3	54.5	65.0	71.6
C.V. (%)	11.1	8.1	7.7	9.7	4.9
L.S.D. (5%)	8.8	13.0	12.4	11.8	6.8
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 1994

YIELD RANK

Strain	Yield Rank	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	7	14	24	12	12	14
IA2007 (II)	34	28	17	31	28	24
Resnik (III)	12	29	12	15	32	2
A93-652026	18	8	1	24	40	7
A93-752035	11	3	10	3	13	19
A93-754009	10	2	11	2	6	16
A93-754022	5	16	5	5	21	4
A93-754024	38	35	38	36	22	25
A93-754027	30	12	8	34	6	10
A93-754028	8	6	18	4	10	13
A93-754037	16	26	33	11	4	27
A93-754052	20	36	26	16	18	31
C1887	13	26	7	25	17	9
C1888	20	13	21	9	16	34
HC89-2436	8	7	13	1	33	34
HC90-2834	25	37	13	27	31	17
HS91-4849	25	15	21	32	8	26
HS92-2658	25	34	20	29	28	20
HS92-2659	30	24	27	36	11	38
HS92-2683	2	10	16	14	19	3
HS92-2684	4	1	9	7	8	21
HS92-2716	33	22	25	28	36	23
K1278	35	33	29	8	4	40
K1279	37	32	37	30	27	37
K1280	23	38	32	10	26	11
K1281	40	40	40	39	38	36
K1282	36	16	36	20	23	22
K1283	28	21	34	17	20	29
K1284	39	39	38	37	35	39
K1285	22	29	30	18	2	32
K1286	19	23	3	13	3	30
LN90-143	16	4	27	21	30	15
LN90-2265	28	19	2	33	24	27
LN90-3364	1	25	3	26	1	8
LN90-3502	15	20	23	34	15	18
LN91-662	13	9	15	23	37	5
LN91-675	5	5	18	21	34	1
LN91-823	23	11	35	40	25	11
LN91-967	32	18	31	18	39	32
LN91-1733	3	29	6	5	14	6

PRELIMINARY TEST IIIA, 1994

YIELD RANK

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	4	16	21	4	21
IA2007 (II)	40	20	17	5	17
Resnik (III)	26	2	27	14	34
A93-652026	38	14	4	32	12
A93-752035	32	33	16	15	10
A93-754009	14	24	2	38	15
A93-754022	23	4	10	20	12
A93-754024	23	26	39	23	40
A93-754027	39	1	19	40	8
A93-754028	33	5	9	34	1
A93-754037	12	25	24	21	28
A93-754052	21	30	36	5	5
C1887	23	17	25	17	16
C1888	29	28	18	29	25
HC89-2436	3	12	5	31	6
HC90-2834	19	21	20	30	8
HS91-4849	13	32	34	26	25
HS92-2658	36	8	15	11	23
HS92-2659	27	22	35	15	6
HS92-2683	5	3	23	3	2
HS92-2684	8	9	37	1	3
HS92-2716	28	18	22	7	35
K1278	10	39	33	12	38
K1279	11	36	28	33	24
K1280	18	37	14	24	11
K1281	37	34	40	37	27
K1282	6	38	31	39	28
K1283	7	27	29	22	33
K1284	16	30	32	35	36
K1285	9	40	30	13	20
K1286	35	35	38	2	17
LN90-143	34	29	6	17	19
LN90-2265	31	13	12	36	37
LN90-3364	2	6	7	9	4
LN90-3502	15	11	8	25	31
LN91-662	22	7	13	27	22
LN91-675	17	10	1	9	32
LN91-823	20	23	3	28	39
LN91-967	30	19	10	17	30
LN91-1733	1	15	26	8	14

PRELIMINARY TEST IIIA, 1994

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	6.6		9	6	7	4
IA2007 (II)	-4.4		-2	-7	-4	-9
Resnik (III)	09/17		09/17	09/16	09/21	09/23
A93-652026	-4.2		-4	-6	-5	-4
A93-752035	5.1		6	6	7	-1
A93-754009	7.3		9	6	11	6
A93-754022	7.6		8	6	12	7
A93-754024	6.4		10	8	7	1
A93-754027	2.4		4	2	5	2
A93-754028	2.1		3	0	6	2
A93-754037	3.2		5	4	3	2
A93-754052	5.4		11	5	7	0
C1887	2.0		5	1	2	1
C1888	0.0		2	-2	0	-1
HC89-2436	6.4		10	6	9	5
HC90-2834	2.2		4	2	4	3
HS91-4849	4.6		6	6	8	4
HS92-2658	-1.7		2	-4	0	-4
HS92-2659	-0.2		2	1	2	0
HS92-2683	3.3		3	6	6	3
HS92-2684	3.3		4	6	5	2
HS92-2716	0.4		0	-1	2	0
K1278	8.4		12	11	15	1
K1279	7.1		10	6	8	4
K1280	7.6		9	6	12	2
K1281	2.0		4	4	4	0
K1282	11.3		16	10	13	9
K1283	7.2		10	7	11	6
K1284	8.8		14	8	10	3
K1285	12.1		18	9	15	7
K1286	10.8		14	8	13	6
LN90-143	-2.9		-4	-2	-5	-1
LN90-2265	-3.8		-4	-5	-6	0
LN90-3364	8.4		10	8	11	4
LN90-3502	-0.4		0	3	-1	0
LN91-662	2.0		4	4	4	-1
LN91-675	2.3		4	5	4	-1
LN91-823	0.3		3	0	1	2
LN91-967	-1.7		-2	-3	-1	1
LN91-1733	7.6		10	6	11	3
Date Planted	05/16		05/16	05/19	05/20	05/24
Days to Mature	123.6		124	120	124	122

PRELIMINARY TEST IIIA, 1994

MATURITY (date)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	7	4	13	3	6
IA2007 (II)	-3	-4	-6	-3	-2
Resnik (III)	09/12	09/17	09/14	09/20	09/13
A93-652026	-1	-6	-7	-2	-3
A93-752035	5	3	13	1	6
A93-754009	5	6	14	2	7
A93-754022	8	6	13	2	6
A93-754024	7	4	14	1	6
A93-754027	5	1	1	0	2
A93-754028	7	0	1	-1	1
A93-754037	6	0	7	0	2
A93-754052	2	4	13	1	6
C1887	1	3	7	-2	0
C1888	-2	1	6	-2	-2
HC89-2436	8	4	8	3	5
HC90-2834	2	-1	1	1	4
HS91-4849	1	3	7	1	5
HS92-2658	-3	-3	0	-2	-1
HS92-2659	-3	-1	-1	-1	-1
HS92-2683	5	1	0	1	5
HS92-2684	5	3	1	0	4
HS92-2716	2	0	0	-1	2
K1278	9	7	11	3	7
K1279	11	7	9	3	6
K1280	9	7	13	3	7
K1281	0	1	1	-1	5
K1282	11	12	15	4	12
K1283	9	6	7	3	6
K1284	11	7	14	5	7
K1285	11	13	16	5	15
K1286	9	12	17	4	14
LN90-143	-2	-4	-4	-2	-2
LN90-2265	-3	-5	-7	-2	-2
LN90-3364	9	9	14	4	7
LN90-3502	-2	-2	1	-2	-1
LN91-662	2	0	0	1	4
LN91-675	5	0	1	1	2
LN91-823	-1	0	0	-1	-1
LN91-967	-2	-4	0	-1	-3
LN91-1733	10	4	14	4	6
Date Planted	05/13	05/19	05/17	05/10	05/10
Days to Mature	122	121	120	133	126

PRELIMINARY TEST IIIA, 1994

LODGING (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.4	1.9	1.8	1.0	2.5	1.5
IA2007 (II)	1.2	1.4	1.7	1.0	2.0	1.0
Resnik (III)	1.5	1.7	1.7	1.0	3.0	1.4
A93-652026	1.7	1.9	1.8	1.0	3.8	2.0
A93-752035	1.5	1.8	1.6	1.0	3.0	2.0
A93-754009	1.6	1.9	1.8	1.0	2.0	1.7
A93-754022	1.6	1.8	1.7	1.0	2.3	2.1
A93-754024	1.7	1.9	2.0	1.0	1.8	1.9
A93-754027	1.5	1.9	1.7	1.0	2.3	1.3
A93-754028	1.6	2.0	1.8	1.0	3.3	1.9
A93-754037	2.4	2.3	2.7	1.8	3.3	2.9
A93-754052	2.1	1.8	2.4	1.0	3.3	2.9
C1887	1.5	1.8	1.8	1.0	2.0	1.8
C1888	1.8	2.1	1.9	1.0	2.8	2.2
HC89-2436	1.8	2.0	1.8	1.0	3.0	1.9
HC90-2834	1.6	1.9	1.8	1.0	2.5	2.1
HS91-4849	1.9	2.1	2.0	1.0	3.0	2.5
HS92-2658	1.6	1.8	1.8	1.0	3.5	1.3
HS92-2659	1.8	2.4	1.8	1.0	3.8	2.0
HS92-2683	1.8	2.2	2.1	1.0	3.5	2.0
HS92-2684	1.8	2.3	1.7	1.0	2.5	1.8
HS92-2716	1.4	1.7	1.7	1.0	1.8	1.8
K1278	2.0	2.1	1.6	1.0	3.3	3.0
K1279	1.5	1.8	1.8	1.0	2.3	1.5
K1280	2.3	2.3	2.7	1.0	3.3	2.7
K1281	2.0	2.4	2.6	1.0	3.5	2.9
K1282	2.0	2.5	2.3	1.0	3.3	1.9
K1283	2.1	2.5	2.3	1.0	3.3	2.1
K1284	2.1	2.6	2.7	1.0	3.5	3.1
K1285	2.0	2.0	2.3	1.0	3.5	1.9
K1286	1.8	2.1	2.1	1.0	3.0	1.9
LN90-143	1.4	1.8	1.6	1.0	3.5	1.0
LN90-2265	1.5	1.9	1.6	1.0	3.0	2.0
LN90-3364	1.5	1.7	1.7	1.0	2.5	1.7
LN90-3502	1.3	1.6	1.6	1.0	1.5	1.5
LN91-662	1.8	2.0	1.9	1.0	4.0	2.2
LN91-675	1.9	1.9	1.8	1.0	3.8	3.0
LN91-823	1.7	1.8	1.7	1.0	2.8	1.8
LN91-967	2.0	2.1	2.0	1.0	4.5	2.8
LN91-1733	1.6	1.8	1.7	1.0	2.8	1.9

PRELIMINARY TEST IIIA, 1994

LODGING (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	1.3	1.0	1.0	1.0	1.3
IA2007 (II)	1.0	1.0	1.0	1.0	1.0
Resnik (III)	1.5	1.0	1.0	1.0	1.3
A93-652026	1.5	1.0	1.5	1.0	1.5
A93-752035	1.5	1.0	1.0	1.0	1.3
A93-754009	1.5	2.0	2.0	1.0	1.0
A93-754022	1.5	1.5	2.0	1.0	1.5
A93-754024	1.0	2.5	2.0	1.0	1.8
A93-754027	1.0	1.5	1.0	1.0	1.8
A93-754028	1.3	1.5	1.0	1.0	1.5
A93-754037	1.8	1.5	2.5	2.4	2.8
A93-754052	1.5	2.0	2.5	1.0	2.5
C1887	1.3	1.0	1.5	1.0	1.3
C1888	1.3	2.0	1.0	1.0	2.5
HC89-2436	1.5	1.5	2.0	1.3	1.5
HC90-2834	1.5	1.5	1.0	1.0	1.3
HS91-4849	1.5	1.5	2.0	1.5	1.8
HS92-2658	1.3	1.5	1.0	1.1	1.3
HS92-2659	1.3	1.0	1.0	1.0	2.8
HS92-2683	1.5	1.0	1.0	1.2	2.0
HS92-2684	1.5	1.5	1.5	1.5	2.5
HS92-2716	1.0	1.0	1.0	1.0	1.5
K1278	1.5	2.0	2.5	1.2	1.5
K1279	1.5	1.5	1.5	1.0	1.5
K1280	1.8	3.0	2.5	1.5	2.0
K1281	1.0	1.5	1.5	1.0	2.5
K1282	1.8	1.0	3.5	1.0	2.0
K1283	1.8	2.5	2.5	1.3	1.5
K1284	1.8	1.5	2.5	1.1	1.5
K1285	1.5	2.0	2.0	1.0	2.3
K1286	1.5	1.0	2.5	1.2	1.8
LN90-143	1.0	1.0	1.0	1.0	1.3
LN90-2265	1.0	1.0	1.0	1.1	1.5
LN90-3364	1.5	1.0	1.0	1.2	1.5
LN90-3502	1.0	1.0	1.0	1.0	1.3
LN91-662	1.5	1.0	2.0	1.1	1.5
LN91-675	1.5	1.0	1.5	1.1	2.5
LN91-823	1.3	1.5	1.0	1.0	3.0
LN91-967	1.0	1.5	1.0	1.0	3.5
LN91-1733	1.5	1.0	1.0	1.3	1.8

PRELIMINARY TEST IIIA, 1994

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	37	42	42	32	36	42
IA2007 (II)	36	38	43	33	36	35
Resnik (III)	35	36	42	33	37	38
A93-652026	33	36	40	30	31	35
A93-752035	37	42	43	32	36	41
A93-754009	38	42	48	37	40	45
A93-754022	36	36	44	32	34	39
A93-754024	41	46	46	33	40	48
A93-754027	37	40	47	30	38	41
A93-754028	38	40	46	32	37	43
A93-754037	41	48	43	38	40	47
A93-754052	41	44	48	37	42	47
C1887	37	40	43	34	39	41
C1888	38	43	42	36	41	37
HC89-2436	40	42	41	37	39	47
HC90-2834	37	40	42	33	36	41
HS91-4849	41	45	46	37	41	44
HS92-2658	39	40	48	34	40	41
HS92-2659	41	42	52	34	43	42
HS92-2683	38	42	44	36	38	43
HS92-2684	39	44	42	38	38	42
HS92-2716	37	37	44	34	35	40
K1278	44	46	50	41	48	50
K1279	39	42	45	35	38	42
K1280	44	48	52	43	49	51
K1281	41	44	48	33	38	48
K1282	41	39	45	35	44	45
K1283	38	40	42	32	35	46
K1284	39	43	44	34	40	45
K1285	43	49	50	36	44	50
K1286	39	40	46	36	38	45
LN90-143	34	40	41	30	34	36
LN90-2265	34	38	42	29	32	34
LN90-3364	39	40	44	32	40	42
LN90-3502	35	38	42	31	33	41
LN91-662	36	39	41	29	38	41
LN91-675	35	34	42	31	36	41
LN91-823	35	36	43	31	37	41
LN91-967	38	42	44	36	36	45
LN91-1733	38	40	44	34	38	43

PRELIMINARY TEST IIIA, 1994

PLANT HEIGHT (inches)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	26	41	47	31	33
IA2007 (II)	22	43	46	29	32
Resnik (III)	25	36	43	29	31
A93-652026	20	40	43	26	28
A93-752035	24	42	48	32	31
A93-754009	25	40	43	29	35
A93-754022	23	41	50	30	35
A93-754024	26	44	53	33	37
A93-754027	24	43	46	26	35
A93-754028	22	46	46	32	35
A93-754037	28	45	50	34	35
A93-754052	28	46	50	37	35
C1887	25	41	45	32	34
C1888	26	46	48	29	35
HC89-2436	31	43	49	38	36
HC90-2834	27	42	44	33	32
HS91-4849	31	43	51	37	36
HS92-2658	25	46	46	33	32
HS92-2659	27	49	51	32	37
HS92-2683	27	40	44	33	35
HS92-2684	30	42	48	34	36
HS92-2716	26	40	45	30	34
K1278	30	51	52	37	37
K1279	27	43	49	30	36
K1280	28	52	45	40	35
K1281	26	47	51	34	37
K1282	29	46	51	37	37
K1283	28	42	48	32	32
K1284	28	43	47	34	34
K1285	29	46	51	33	39
K1286	27	42	44	34	34
LN90-143	24	37	40	30	32
LN90-2265	23	36	44	26	31
LN90-3364	27	44	50	33	35
LN90-3502	24	36	46	29	31
LN91-662	25	38	46	29	31
LN91-675	24	39	45	28	33
LN91-823	24	39	45	28	30
LN91-967	27	40	47	32	32
LN91-1733	26	41	44	34	37

PRELIMINARY TEST IIIA, 1994

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.5	1.5	1.5	1.5	1.0	2.0
IA2007 (II)	2.0	1.5	2.0	1.5	1.5	3.0
Resnik (III)	1.7	2.0	2.0	1.5	1.0	2.0
A93-652026	1.7	1.5	1.5	1.8	1.0	3.0
A93-752035	1.6	1.0	1.0	1.5	1.0	3.0
A93-754009	1.9	2.0	1.5	1.8	1.0	3.0
A93-754022	1.9	2.0	2.0	1.5	1.0	2.0
A93-754024	1.6	1.5	1.5	1.5	1.0	2.0
A93-754027	2.0	2.0	1.5	1.5	1.0	3.0
A93-754028	1.9	2.0	1.5	1.5	1.5	3.0
A93-754037	1.8	1.5	1.0	1.5	1.5	3.0
A93-754052	1.6	1.0	1.0	1.8	1.0	3.0
C1887	2.0	1.5	1.0	1.5	1.0	3.0
C1888	1.9	1.0	1.5	1.5	1.5	3.0
HC89-2436	1.4	1.0	1.5	1.5	1.0	2.0
HC90-2834	1.7	1.5	1.5	1.5	1.0	2.0
HS91-4849	1.9	2.0	1.0	1.5	1.0	3.0
HS92-2658	1.7	1.5	1.5	1.8	1.0	3.0
HS92-2659	1.7	1.0	1.5	1.5	1.5	2.0
HS92-2683	1.7	1.5	1.5	1.5	1.0	3.0
HS92-2684	1.6	1.5	1.0	1.5	1.0	2.0
HS92-2716	1.6	1.0	1.0	1.5	1.0	3.0
K1278	1.6	1.5	1.5	1.5	1.5	2.0
K1279	1.8	1.5	2.0	1.8	1.5	2.0
K1280	2.1	2.0	2.0	2.3	1.5	3.0
K1281	1.9	1.5	2.0	1.5	1.0	3.0
K1282	1.6	2.0	2.0	1.5	1.0	3.0
K1283	1.4	2.5	1.5	1.5	1.0	2.0
K1284	1.8	3.0	1.5	1.8	1.0	3.0
K1285	1.5	1.5	2.0	1.5	1.0	3.0
K1286	1.6	2.5	1.5	1.5	1.0	3.0
LN90-143	1.8	2.0	1.0	1.8	1.5	3.0
LN90-2265	1.9	1.5	1.5	2.0	1.0	3.0
LN90-3364	1.6	1.0	1.5	1.5	1.0	3.0
LN90-3502	1.8	1.5	1.5	1.5	1.5	2.0
LN91-662	1.7	1.0	2.0	1.8	1.0	3.0
LN91-675	1.9	1.5	2.0	1.5	1.0	3.0
LN91-823	1.7	1.5	1.5	1.5	1.0	2.0
LN91-967	1.8	1.5	1.5	1.5	1.0	3.0
LN91-1733	1.5	1.0	1.5	1.5	1.5	2.0

PRELIMINARY TEST IIIA, 1994

SEED QUALITY (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	3.0	1.5	1.0	1.0	1.0
IA2007 (II)	4.0	2.0	2.0	1.0	1.0
Resnik (III)	3.0	2.0	1.5	1.0	1.0
A93-652026	2.0	2.0	1.5	1.0	1.5
A93-752035	3.0	1.5	1.5	1.0	1.0
A93-754009	3.5	2.5	1.5	1.0	1.5
A93-754022	4.0	2.0	1.5	1.0	1.5
A93-754024	3.5	2.0	1.0	1.0	1.0
A93-754027	3.5	2.5	2.0	2.0	1.0
A93-754028	3.0	2.0	1.5	1.0	1.5
A93-754037	3.0	2.0	2.0	1.0	1.0
A93-754052	3.0	2.0	1.5	1.0	1.0
C1887	3.5	2.5	2.5	1.0	2.0
C1888	3.5	2.5	2.0	1.0	1.0
HC89-2436	2.5	1.5	1.0	1.0	1.0
HC90-2834	3.5	2.0	2.0	1.0	1.0
HS91-4849	3.0	2.0	3.0	1.0	1.5
HS92-2658	3.0	2.0	1.0	1.0	1.5
HS92-2659	3.0	2.5	1.5	1.0	1.0
HS92-2683	2.5	2.0	1.5	1.0	1.0
HS92-2684	2.5	2.0	2.0	1.0	1.0
HS92-2716	3.0	2.0	1.0	1.0	1.0
K1278	2.5	1.5	1.5	1.0	1.0
K1279	2.5	2.5	1.5	1.0	2.0
K1280	3.5	2.5	2.0	1.0	1.5
K1281	3.5	2.0	2.0	1.0	1.0
K1282	2.0	1.5	1.0	1.0	1.0
K1283	1.5	1.0	1.0	1.0	1.0
K1284	2.5	2.0	1.0	1.0	1.0
K1285	1.5	1.5	1.0	1.0	1.0
K1286	2.0	1.5	1.0	1.0	1.0
LN90-143	3.0	2.5	1.5	1.0	1.0
LN90-2265	3.0	2.0	2.0	2.0	1.0
LN90-3364	3.0	1.0	1.5	1.0	1.0
LN90-3502	3.5	2.0	2.0	1.0	1.5
LN91-662	2.0	2.0	2.0	1.0	1.0
LN91-675	2.5	2.5	2.5	1.0	1.0
LN91-823	3.0	2.5	1.5	1.0	1.5
LN91-967	2.5	2.0	2.0	1.0	1.5
LN91-1733	2.5	2.0	1.0	1.0	1.0

PRELIMINARY TEST IIIA, 1994

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	15.4	14.8	16.2	14.9	17.0	14.6
IA2007 (II)	18.0	17.4	17.4	17.1	19.5	19.2
Resnik (III)	16.0	14.8	16.2	15.7	17.8	16.7
A93-652026	15.8	15.0	16.5	15.1	16.8	16.9
A93-752035	15.6	14.9	15.8	16.6	17.0	12.3
A93-754009	18.2	17.7	18.7	18.3	19.5	18.5
A93-754022	16.5	15.2	17.2	15.8	17.8	17.4
A93-754024	16.9	16.4	17.6	17.1	17.4	16.6
A93-754027	17.3	15.8	17.9	15.7	18.8	18.3
A93-754028	17.0	15.8	17.4	17.0	18.1	17.5
A93-754037	17.7	17.4	18.2	16.9	18.9	17.0
A93-754052	18.2	17.6	19.4	18.4	20.1	18.0
C1887	19.3	18.0	19.2	19.4	20.1	20.5
C1888	17.8	16.6	18.2	17.6	18.6	19.8
HC89-2436	14.8	14.4	15.5	15.7	16.4	13.9
HC90-2834	15.2	14.0	15.4	14.7	16.3	17.1
HS91-4849	20.2	18.4	20.0	19.8	22.1	18.7
HS92-2658	17.3	15.5	17.4	16.3	17.8	18.1
HS92-2659	16.6	16.6	18.1	16.2	17.9	15.8
HS92-2683	17.7	17.2	18.4	16.7	19.4	17.6
HS92-2684	17.0	16.8	17.5	17.1	18.7	16.3
HS92-2716	17.6	16.6	17.6	17.6	18.7	18.1
K1278	19.8	19.6	19.8	20.9	23.1	18.3
K1279	16.0	14.8	17.0	15.8	16.6	16.9
K1280	20.3	19.5	20.1	20.2	22.9	20.8
K1281	15.8	14.9	16.4	15.8	16.5	17.1
K1282	15.9	15.4	16.1	16.6	18.0	15.1
K1283	16.3	16.0	16.9	16.0	17.7	16.3
K1284	16.3	16.0	17.2	15.5	17.8	16.7
K1285	15.5	15.4	16.7	15.3	17.9	14.9
K1286	16.4	15.2	16.4	15.5	18.0	21.2
LN90-143	18.1	18.0	18.8	16.7	18.8	18.3
LN90-2265	18.9	18.1	19.4	18.4	19.8	19.8
LN90-3364	15.6	14.0	15.2	16.1	16.4	17.6
LN90-3502	17.9	17.0	18.6	19.1	18.2	17.6
LN91-662	17.5	15.9	18.4	17.7	18.4	18.1
LN91-675	17.3	15.8	18.5	16.7	17.9	18.2
LN91-823	17.1	15.8	18.1	16.8	18.1	17.6
LN91-967	18.0	18.0	19.1	16.6	18.7	17.7
LN91-1733	16.5	15.9	17.2	16.3	18.3	16.1

PRELIMINARY TEST IIIA, 1994

SEED SIZE (g/100)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)		16.2	15.8	14.8	14.0
IA2007 (II)		18.0	16.9	19.8	16.5
Resnik (III)		16.2	15.9	16.1	14.3
A93-652026		15.9	15.7	17.3	12.7
A93-752035		16.5	15.8	17.0	14.2
A93-754009		18.2	19.3	17.8	15.7
A93-754022		16.8	16.7	16.0	15.3
A93-754024		17.4	16.6	18.0	15.0
A93-754027		18.5	17.1	18.2	15.8
A93-754028		17.8	16.9	17.4	15.5
A93-754037		17.8	17.7	18.1	17.1
A93-754052		17.3	18.1	18.8	16.0
C1887		20.0	19.3	19.9	17.2
C1888		18.0	17.7	18.4	15.3
HC89-2436		14.8	13.3	15.1	14.3
HC90-2834		15.4	15.4	15.4	12.8
HS91-4849		25.0	20.5	20.0	17.5
HS92-2658		21.5	16.9	18.0	14.3
HS92-2659		16.9	15.1	18.2	14.5
HS92-2683		18.2	17.9	18.2	15.6
HS92-2684		17.3	16.4	17.4	15.5
HS92-2716		18.2	17.7	18.2	15.9
K1278		19.4	19.2	20.4	17.6
K1279		16.5	16.5	15.1	14.9
K1280		20.8	19.9	22.0	16.5
K1281		16.3	16.0	15.5	13.8
K1282		15.9	16.3	16.0	13.9
K1283		16.8	16.7	16.5	14.0
K1284		15.8	17.2	16.2	14.7
K1285		14.4	15.7	15.3	13.8
K1286		15.8	15.1	15.9	14.6
LN90-143		18.8	17.8	19.7	15.8
LN90-2265		19.4	19.0	20.2	15.8
LN90-3364		16.1	15.2	16.4	13.7
LN90-3502		18.5	17.8	18.0	16.3
LN91-662		18.0	17.3	18.5	15.4
LN91-675		17.2	17.8	18.7	15.0
LN91-823		17.7	17.4	18.1	14.5
LN91-967		18.8	19.2	18.6	15.3
LN91-1733		16.9	16.2	16.0	15.5

PRELIMINARY TEST IIIA, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Flyer (IV)	42.2	42.7	41.6	42.4	42.1
IA2007 (II)	40.4	40.7	38.9	41.2	40.7
Resnik (III)	41.8	41.5	40.2	42.0	43.5
A93-652026	39.8	40.8	38.0	40.3	40.2
A93-752035	41.6	41.5	41.0	41.9	42.0
A93-754009	41.3	40.4	40.2	42.2	42.3
A93-754022	42.4	42.1	40.9	42.8	43.7
A93-754024	42.3	41.9	41.6	42.7	43.1
A93-754027	40.5	39.7	38.9	41.1	42.3
A93-754028	39.3	38.9	37.8	40.2	40.2
A93-754037	39.8	40.2	37.9	40.5	40.5
A93-754052	40.3	41.0	38.3	40.7	41.3
C1887	41.6	42.0	40.2	42.4	41.8
C1888	41.1	40.6	39.5	42.3	42.1
HC89-2436	42.0	42.0	41.0	42.2	42.9
HC90-2834	41.4	41.3	40.0	42.3	42.0
HS91-4849	42.5	42.8	41.6	42.2	43.2
HS92-2658	42.4	42.6	39.6	43.9	43.4
HS92-2659	41.3	41.8	39.6	41.7	42.1
HS92-2683	42.2	41.5	41.3	42.7	43.3
HS92-2684	41.9	41.2	40.7	42.5	43.0
HS92-2716	40.4	40.1	39.0	41.2	41.2
K1278	41.3	41.3	40.7	41.5	41.7
K1279	41.7	41.5	41.6	41.4	42.2
K1280	41.1	40.2	40.3	41.7	42.3
K1281	43.8	43.8	43.1	43.9	44.2
K1282	40.6	39.7	40.5	41.4	40.9
K1283	40.8	40.5	40.1	41.2	41.2
K1284	41.9	42.0	41.0	42.6	41.9
K1285	40.9	40.6	40.9	41.3	40.9
K1286	40.8	40.2	40.5	41.2	41.3
LN90-143	42.2	42.6	40.3	43.3	42.6
LN90-2265	41.5	41.5	39.1	42.4	43.1
LN90-3364	41.1	40.6	40.4	40.6	42.9
LN90-3502	41.7	41.5	40.9	42.5	42.0
LN91-662	41.5	40.9	39.2	42.5	43.3
LN91-675	41.7	41.8	39.7	42.4	42.7
LN91-823	41.1	41.7	38.9	42.0	41.8
LN91-967	41.1	40.8	39.2	42.5	41.9
LN91-1733	42.4	42.1	41.6	42.4	43.4

PRELIMINARY TEST IIIA, 1994

OIL (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Flyer (IV)	20.6	20.0	20.7	21.3	20.4
IA2007 (II)	20.5	20.4	21.1	20.9	19.7
Resnik (III)	20.7	20.0	21.1	21.3	20.3
A93-652026	20.5	19.9	21.1	20.8	20.2
A93-752035	21.0	21.0	21.2	21.1	20.6
A93-754009	20.2	20.7	19.8	20.2	20.1
A93-754022	20.4	20.0	21.2	20.3	19.9
A93-754024	19.6	19.9	20.1	19.6	18.9
A93-754027	20.2	20.3	20.7	20.4	19.4
A93-754028	20.1	20.1	20.3	20.2	19.6
A93-754037	20.2	20.2	20.7	20.3	19.6
A93-754052	20.1	20.5	20.3	20.1	19.4
C1887	20.7	20.1	21.4	20.7	20.6
C1888	20.3	20.3	20.7	20.5	19.6
HC89-2436	20.2	19.6	20.9	21.0	19.3
HC90-2834	20.4	20.4	21.3	20.0	19.7
HS91-4849	20.3	19.7	20.6	21.1	19.8
HS92-2658	20.1	19.8	21.0	20.0	19.7
HS92-2659	20.5	19.9	21.3	20.5	20.1
HS92-2683	21.0	21.5	21.3	20.9	20.2
HS92-2684	21.0	20.8	21.7	20.8	20.7
HS92-2716	20.8	20.5	21.4	21.0	20.3
K1278	20.5	20.3	21.0	20.8	20.0
K1279	20.2	20.1	20.3	20.5	19.9
K1280	19.7	19.7	20.0	19.9	19.1
K1281	19.1	18.8	19.7	19.2	18.6
K1282	21.2	21.2	21.7	21.4	20.3
K1283	20.7	20.3	21.0	21.2	20.3
K1284	20.2	20.2	20.7	20.5	19.3
K1285	20.4	20.5	20.3	20.6	20.3
K1286	20.4	20.3	20.6	20.9	19.8
LN90-143	20.8	20.6	21.4	20.8	20.5
LN90-2265	20.1	19.6	20.7	20.1	19.9
LN90-3364	20.7	20.7	21.1	21.2	19.7
LN90-3502	20.3	19.8	20.8	20.9	19.8
LN91-662	20.7	20.4	21.4	20.9	20.2
LN91-675	20.7	20.8	21.1	20.8	20.2
LN91-823	20.1	20.0	20.8	20.1	19.4
LN91-967	20.0	19.5	20.9	19.9	19.5
LN91-1733	20.9	20.9	21.3	20.8	20.6

PRELIMINARY TEST IIIB, 1994

Strain	Parentage	Generation Composited	Unique Traits
Flyer (IV)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
IA2007 (II)	Pride B152 x A80-244003	F5	
Resnik (III)	Asgrow A3127[4] x Williams 82	BC3 F3	Rps1-k
C1889	CX1038-63 x A86-301024	F5	
C1890	CX1022-90 x Resnik	F5	
C1891	CX1022-90 x Resnik	F5	
C1896	A87-296011 x C1762	F5	
HF92-078	HS84-6224 x Resnik	F5	
HF92-079	HS84-6224 x Resnik	F5	
HF92-083	HS84-6224 x Resnik	F5	
HF92-176	HM87107 x Flyer	F5	
HF92-178	HM87107 x Flyer	F5	
SL87-16119	HC83-4532 x DeKalb Pfizer CX415	F5	
SL90-3185	LN84-452 x Asgrow A3733	F5	
SL90-3695	LN84-3897 x Resnik	F5	
SL91-4554	A86-301024 x HM8848	F5	
SL91-4585	Dairyland DSR252 x Pioneer PI999.19	F5	
SL91-4587	Dairyland DSR252 x Pioneer PI999.19	F5	
SL91-6675	Pioneer P9391 x Asgrow A3935	F5	
SL91-6988	Pioneer P9341 x Asgrow A4393	F5	
SL91-7358	Pioneer P9442 x Pioneer P9461	F5	
U93-2109	Kunitz x Uphoff 3100	F4	
U93-3116	Asgrow A3935 x Asgrow A3205	F6	titi
U93-3122	Asgrow A3205 x A86-303014	F6	
U93-3204	LN85-10234 x Asgrow A3205	F6	
U93-3228	Kunitz x Dairyland DSR 304	F4	
U93-3323	Asgrow A3935 x A86-303014	F6	
U93-3420	Northrup King S42-30 x Asgrow A3935	F6	
U93-3434	Northrup King S42-30 x Asgrow A3205	F5	
U93-3716	UP3 Intermated Population	F5	
Charleston (dtl)	HC74-634RE x HC78-676	F5	dtl
C1901	HC85-6724 x C1762	F5	dtl
C1902	HC85-6724 x C1762	F5	dtl
HC86-4367	Asgrow A3127 x Sprite 87	F5	dtl
HC89-8PR	PI 86050 x Sprite	F5	dtl
HC89-79	Ripley x Essex	F5	dtl
HC89-1389	HC78-676 BC x Pella	F5	dtl
HC89-1523	Hobbit 87 x (Hobbit 87 x HC83-232-15)	F5	dtl
HC90-180PR	Hobbit x PI 86050	F5	dtl

PRELIMINARY TEST IIIB, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR-Boone Plant n %	BSR-Boone Stem n %
Flyer (IV)	PTTIYBlI	4.2	1	90.0	56.5
IA2007 (II)	PTBIYBrI	4.5	1	90.0	47.9
Resnik (III)	PTTSYBlI	4.0	1	75.0	53.7
C1889	PGBrSYIbI	4.2	1	75.0	45.7
C1890	PTBrIYBrI	4.3	2	65.0	16.9
C1891	PTTIYBlI	4.0	1	90.0	63.8
C1896	PTBrIYBlI	3.0	1	65.0	23.9
HF92-078	P+WTTIYBlI	4.8	1	60.0	44.4
HF92-079	P+WTTIYBlI	4.2	2	90.0	43.0
HF92-083	P+WTTIYIbI	4.3	1	70.0	37.1
HF92-176	PTTDYIbI	4.7	1	95.0	69.7
HF92-178	P+WTTDYIbI	4.3	1	75.0	49.0
SL87-16119	WTTSYBlI	4.3	1	85.0	40.2
SL90-3185	WTTDYBlI	4.5	1	95.0	70.1
SL90-3695	WTBrDYBlI	3.2	1	90.0	40.8
SL91-4554	WTTSYBrI	4.0	1	90.0	63.0
SL91-4585	WTBrIYBlI	4.2	1	95.0	61.5
SL91-4587	P+WTBrDYBlI	3.5	1	100.0	66.9
SL91-6675	PTBrDYBlI	4.0	1	100.0	57.1
SL91-6988	P+WTTSYBl+BrI	4.0	1	95.0	57.6
SL91-7358	P+WTTSYBlI	4.2	1	85.0	45.3
U93-2109	WTTSYBrI	4.2	1	90.0	32.6
U93-3116	PTBDYBlI	4.2	1	75.0	41.3
U93-3122	PTBIYIbI	4.8	1	60.0	27.6
U93-3204	PTBrDYBlI	4.7	1	60.0	24.7
U93-3228	WGTDYBlI	4.0	1	100.0	70.8
U93-3323	PTTDYBlI	4.0	1	70.0	24.0
U93-3420	PTBrDYBlI	4.3	1	95.0	64.6
U93-3434	PTT+BrDYBlI	4.2	2	95.0	51.9
U93-3716	PGBrIYIbI	3.5	1	90.0	62.6
Charleston (dtl)	PTTD	4.0	1	100.0	76.3
C1901	PTBrDYBlD	3.7	2	100.0	64.2
C1902	PTTDYGrD	3.3	1	95.0	81.4
HC86-4367	WTTSYBlD	4.2	1	100.0	79.8
HC89-8PR	WTTSYBlD	4.0	1	100.0	97.5
HC89-79	WGTSYBfD	3.3	1	100.0	94.7
HC89-1389	PTTSYBrD	4.0	1	100.0	88.2
HC89-1523	WTTDYBlD	3.7	1	85.0	63.7
HC90-180PR	WTTSYBlD	3.7	1	100.0	63.9

PRELIMINARY TEST IIIB, 1994

DISEASE DATA

Strain	PR Custar Root Rot Race 25	PR Ames Race 4	PR Lafayette Race 7	PS Laf. a %
Flyer (IV)	3.8	R	R	8
IA2007 (II)	3.8	S	R	6
Resnik (III)	3.7	R	R	6
C1889	3.0	S	S	1
C1890	3.3	H	R	3
C1891	2.7	R	R	4
C1896	3.8	S	S	22
HF92-078	3.4	H	R	4
HF92-079	3.2	R	R	7
HF92-083	2.9	H	S	8
HF92-176	3.4	R	R	4
HF92-178	3.1	R	R	4
SL87-16119	3.3	S	R	9
SL90-3185	3.6	S	S	3
SL90-3695	4.4	S	S	6
SL91-4554	4.3	S	S	2
SL91-4585	3.9	S	S	7
SL91-4587	4.1	S	S	8
SL91-6675	3.5	S	S	3
SL91-6988	3.9	S	S	12
SL91-7358	4.0	S	S	2
U93-2109	3.1	H	R	3
U93-3116	4.1	S	S	6
U93-3122	3.9	S	S	15
U93-3204	4.2	S	S	4
U93-3228	3.5	H	R	5
U93-3323	4.2	S	S	6
U93-3420	4.3	S	S	5
U93-3434	3.7	S	S	36
U93-3716	4.5	S	S	1
Charleston (dtl)	4.5	S	S	0
C1901	5.1	S	S	0
C1902	4.6	S	S	0
HC86-4367	4.0	R	R	1
HC89-8PR	4.3	H	R	2
HC89-79	3.9	H	H	0
HC89-1389	3.9	R	R	1
HC89-1523	4.6	H	R	2
HC90-180PR	4.2	R	R	1

PRELIMINARY TEST IIIB, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 9 g/100	Composition Protein 4 %	 Oil 4 %
Flyer (IV)	60.2	17	6.8	1.5	38	1.6	15.9	42.4	20.6
IA2007 (II)	60.4	14	-4.2	1.5	36	2.1	17.9	40.6	20.6
Resnik (III)	58.9	29	09/16	1.6	36	1.8	16.5	41.8	20.6
C1889	53.8	39	5.1	1.6	39	2.1	18.3	46.5	19.2
C1890	58.4	32	3.6	1.8	38	2.2	18.8	41.5	20.5
C1891	59.7	21	8.6	1.7	43	1.9	17.1	41.4	20.4
C1896	60.2	17	2.2	1.6	34	2.4	20.5	41.2	20.3
HF92-078	59.8	20	3.2	2.0	40	1.8	17.6	40.9	20.5
HF92-079	58.9	29	5.9	1.8	38	1.8	17.4	42.0	20.3
HF92-083	59.7	21	3.8	2.0	42	1.8	17.1	40.6	20.4
HF92-176	58.2	33	2.2	1.4	36	1.7	16.1	41.7	20.5
HF92-178	60.3	15	3.8	1.8	42	1.7	16.2	40.1	20.6
SL87-16119	58.7	31	7.2	2.1	42	1.7	17.7	40.9	20.7
SL90-3185	62.8	5	8.3	1.8	35	1.8	17.4	42.6	19.9
SL90-3695	59.9	19	7.4	1.5	41	2.1	16.6	42.2	20.6
SL91-4554	61.4	10	3.9	1.4	36	1.8	15.5	41.0	20.3
SL91-4585	59.5	23	8.1	2.1	38	1.8	17.8	42.6	20.2
SL91-4587	56.4	36	8.1	2.6	40	1.9	18.3	42.6	20.6
SL91-6675	61.4	10	10.0	1.8	41	1.7	16.7	41.2	20.3
SL91-6988	59.1	27	8.0	1.6	40	1.6	18.8	41.8	20.4
SL91-7358	59.5	23	11.0	1.8	40	1.7	16.1	40.9	20.6
U93-2109	59.2	26	3.2	1.6	37	2.3	16.9	41.3	20.3
U93-3116	63.6	4	3.6	1.4	36	1.9	16.1	41.8	20.2
U93-3122	64.4	1	2.8	1.5	35	1.8	16.9	41.2	20.2
U93-3204	64.1	3	9.1	2.0	38	1.9	19.6	41.0	20.3
U93-3228	61.2	12	4.9	1.9	36	1.7	18.7	42.1	20.6
U93-3323	62.0	8	7.9	1.8	40	1.6	16.9	40.1	20.5
U93-3420	62.8	5	8.1	1.7	39	1.6	16.4	42.2	20.9
U93-3434	60.3	15	9.4	1.8	40	1.7	18.5	43.2	20.3
U93-3716	64.4	1	7.4	1.9	39	2.5	16.8	40.3	20.1
Charleston (dtl)	61.9	9	4.7	1.2	26	1.6	16.5	42.0	20.3
C1901	59.3	25	5.4	1.4	27	1.8	15.3	39.4	20.1
C1902	60.6	13	6.0	1.1	25	1.9	16.9	40.6	20.7
HC86-4367	59.1	27	5.7	1.1	24	1.7	14.8	40.3	20.5
HC89-8PR	57.8	34	4.4	1.1	25	1.8	17.7	41.2	20.8
HC89-79	56.2	37	6.0	1.3	26	1.5	15.9	42.5	20.8
HC89-1389	62.3	7	6.7	1.3	26	1.8	17.4	41.7	20.4
HC89-1523	54.3	38	8.0	1.2	26	1.6	16.5	41.8	20.9
HC90-180PR	57.3	35	5.0	1.3	26	1.9	17.3	39.4	20.9

123.4 Days After Planting

PRELIMINARY TEST IIIB, 1994

YIELD (bu/a)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	60.2	60.0	51.4	52.7	66.0	77.8
IA2007 (II)	60.4	64.2	64.6	42.6	60.3	68.3
Resnik (III)	58.9	61.7	54.7	54.3	62.0	60.8
C1889	53.8	57.0	56.2	43.4	57.2	50.6
C1890	58.4	59.1	53.2	47.9	61.0	75.2
C1891	59.7	62.5	54.8	52.7	64.5	54.3
C1896	60.2	63.3	58.6	45.8	63.1	66.2
HF92-078	59.8	58.1	62.3	50.5	63.8	68.7
HF92-079	58.9	57.9	58.0	53.7	64.2	68.7
HF92-083	59.7	58.8	59.5	50.5	65.7	70.3
HF92-176	58.2	59.4	55.7	53.2	58.5	62.3
HF92-178	60.3	61.5	59.5	52.2	64.8	76.5
SL87-16119	58.7	57.9	52.0	53.2	60.2	62.0
SL90-3185	62.8	64.4	63.2	55.9	69.2	64.7
SL90-3695	59.9	65.1	60.5	51.7	67.8	62.5
SL91-4554	61.4	61.8	64.5	51.5	67.2	61.8
SL91-4585	59.5	61.7	52.6	53.8	63.3	51.4
SL91-4587	56.4	60.2	54.8	49.2	61.0	52.5
SL91-6675	61.4	62.1	60.7	52.7	69.3	64.4
SL91-6988	59.1	61.5	48.7	51.1	64.9	57.4
SL91-7358	59.5	59.9	58.8	48.4	65.8	68.5
U93-2109	59.2	60.0	56.1	47.8	61.0	65.0
U93-3116	63.6	67.4	62.3	50.2	65.2	70.5
U93-3122	64.4	64.9	63.9	52.4	66.6	73.2
U93-3204	64.1	66.6	62.2	49.9	72.0	72.2
U93-3228	61.2	67.4	59.0	48.7	66.6	59.0
U93-3323	62.0	67.0	64.2	53.0	69.2	59.0
U93-3420	62.8	60.5	61.5	53.2	67.2	70.3
U93-3434	60.3	60.6	56.8	47.2	67.6	66.1
U93-3716	64.4	67.8	69.3	54.4	70.0	64.9
Charleston (dtl)	61.9	69.2	59.4	50.4	72.6	59.8
C1901	59.3	62.3	62.8	49.9	71.9	66.2
C1902	60.6	63.9	54.3	51.2	63.8	60.8
HC86-4367	59.1	64.1	59.8	48.7	59.0	62.6
HC89-8PR	57.8	61.5	59.8	48.1	60.5	63.7
HC89-79	56.2	60.5	55.4	51.3	57.7	57.9
HC89-1389	62.3	65.2	61.5	47.6	73.9	67.3
HC89-1523	54.3	59.9	56.4	50.0	64.3	58.2
HC90-180PR	57.3	65.0	58.0	46.1	66.0	63.8
C.V. (%)		5.6	6.2	6.8	5.6	10.7
L.S.D. (5%)		7.0	7.2	7.0	7.5	13.9
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 1994

YIELD (bu/a)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	45.6	48.4	59.4	65.0	75.3
IA2007 (II)	34.3	56.7	62.9	69.7	80.5
Resnik (III)	42.0	53.1	64.7	66.5	69.4
C1889	41.4	50.3	56.1	56.8	69.0
C1890	42.9	50.7	63.8	61.9	68.7
C1891	52.3	55.9	57.8	64.8	77.5
C1896	41.7	59.3	65.8	58.0	80.3
HF92-078	39.5	48.2	62.7	68.9	75.6
HF92-079	39.0	51.1	58.1	59.1	79.1
HF92-083	40.2	51.5	59.6	60.7	79.8
HF92-176	41.2	55.0	59.2	60.9	76.1
HF92-178	42.8	52.9	54.5	63.5	74.4
SL87-16119	47.6	49.8	59.0	68.1	77.3
SL90-3185	52.4	54.5	67.5	60.6	75.6
SL90-3695	48.1	53.0	54.6	58.7	77.0
SL91-4554	48.1	60.5	61.0	61.0	77.0
SL91-4585	45.5	59.7	65.8	65.0	75.8
SL91-4587	48.2	53.7	59.4	60.1	64.7
SL91-6675	53.0	54.5	54.2	63.2	80.2
SL91-6988	48.6	55.9	64.6	62.7	75.7
SL91-7358	49.8	45.9	59.9	58.7	79.3
U93-2109	47.3	54.7	62.6	63.5	74.0
U93-3116	47.4	62.2	64.8	67.5	78.0
U93-3122	53.2	64.0	73.5	57.5	74.7
U93-3204	47.1	55.4	69.1	68.0	78.3
U93-3228	48.3	57.2	66.6	63.6	76.0
U93-3323	38.0	56.6	64.6	61.5	86.6
U93-3420	41.8	59.6	66.0	60.9	87.4
U93-3434	46.7	58.0	60.8	60.9	78.7
U93-3716	41.7	62.7	63.8	66.5	83.3
Charleston (dtl)	41.3	58.2	69.5	63.4	74.9
C1901	40.1	52.5	63.3	51.1	72.6
C1902	44.3	63.3	68.0	60.6	75.4
HC86-4367	43.8	53.1	65.1	63.3	71.8
HC89-8PR	34.6	47.4	64.6	62.7	74.8
HC89-79	36.8	53.6	62.6	59.8	66.8
HC89-1389	39.1	59.7	62.0	72.7	74.4
HC89-1523	30.6	40.7	59.0	55.1	68.3
HC90-180PR	37.8	44.2	63.3	56.5	72.0
C.V. (%)	11.2	7.0	7.3	9.7	3.3
L.S.D. (5%)	9.9	10.9	13.0	11.8	5.1
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIB, 1994

YIELD RANK

Strain	Yield Rank	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	17	29	38	10	15	1
IA2007 (II)	14	12	2	39	34	12
Resnik (III)	29	20	33	3	29	28
C1889	39	39	27	38	39	39
C1890	32	34	35	32	30	3
C1891	21	16	31	10	22	36
C1896	17	15	22	37	28	14
HF92-078	20	36	8	20	25	9
HF92-079	29	37	23	5	24	9
HF92-083	21	35	17	20	18	7
HF92-176	33	33	29	6	37	25
HF92-178	15	22	17	14	21	2
SL87-16119	31	37	37	6	35	26
SL90-3185	5	11	6	1	7	19
SL90-3695	19	8	14	15	9	24
SL91-4554	10	19	3	16	11	27
SL91-4585	23	20	36	4	25	38
SL91-4587	36	28	31	27	30	37
SL91-6675	10	18	13	10	6	20
SL91-6988	27	22	39	19	20	35
SL91-7358	23	31	21	30	17	11
U93-2109	26	29	28	33	30	17
U93-3116	4	3	8	23	19	6
U93-3122	1	10	5	13	13	4
U93-3204	3	6	10	24	3	5
U93-3228	12	3	20	28	13	31
U93-3323	8	5	4	9	7	31
U93-3420	5	26	11	6	11	7
U93-3434	15	25	25	35	10	16
U93-3716	1	2	1	2	5	18
Charleston (dtl)	9	1	19	22	2	30
C1901	25	17	7	24	4	14
C1902	13	14	34	18	25	28
HC86-4367	27	13	15	28	36	23
HC89-8PR	34	22	15	31	33	22
HC89-79	37	26	30	17	38	34
HC89-1389	7	7	11	34	1	13
HC89-1523	38	31	26	24	23	33
HC90-180PR	35	9	23	36	15	21

PRELIMINARY TEST IIIB, 1994

YIELD RANK

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	15	34	29	9	24
IA2007 (II)	38	13	20	2	4
Resnik (III)	22	24	12	7	34
C1889	25	32	36	36	35
C1890	20	31	16	20	36
C1891	4	15	35	11	13
C1896	26	9	8	34	5
HF92-078	31	35	21	3	21
HF92-079	33	30	34	31	9
HF92-083	29	29	28	26	7
HF92-176	28	18	31	23	17
HF92-178	21	27	38	13	28
SL87-16119	10	33	32	4	14
SL90-3185	3	20	5	27	21
SL90-3695	8	26	37	32	15
SL91-4554	9	5	25	22	15
SL91-4585	16	7	9	9	19
SL91-4587	7	22	29	29	39
SL91-6675	2	21	39	17	6
SL91-6988	6	16	13	18	20
SL91-7358	5	37	27	32	8
U93-2109	12	19	22	13	30
U93-3116	11	4	11	6	12
U93-3122	1	1	1	35	27
U93-3204	13	17	3	5	11
U93-3228	17	12	6	12	18
U93-3323	34	14	13	21	2
U93-3420	23	9	7	23	1
U93-3434	14	11	26	23	10
U93-3716	25	3	16	7	3
Charleston (dtl)	27	10	2	15	25
C1901	30	28	18	39	31
C1902	18	2	4	27	23
HC86-4367	19	25	10	16	33
HC89-8PR	37	36	13	18	26
HC89-79	36	23	22	30	38
HC89-1389	32	7	24	1	28
HC89-1523	39	39	32	38	37
HC90-180PR	35	38	18	37	32

PRELIMINARY TEST IIIB, 1994

MATURITY (date)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	6.8		5	6	10	7
IA2007 (II)	-4.2		-6	-7	-4	-9
Resnik (III)	09/16		09/18	09/15	09/21	09/24
C1889	5.1		4	5	5	3
C1890	3.6		2	4	4	7
C1891	8.6		9	7	12	7
C1896	2.2		4	3	3	1
HF92-078	3.2		2	5	5	3
HF92-079	5.9		6	6	7	7
HF92-083	3.8		4	5	5	3
HF92-176	2.2		1	4	4	0
HF92-178	3.8		3	6	5	2
SL87-16119	7.2		9	7	12	9
SL90-3185	8.3		8	7	11	7
SL90-3695	7.4		8	7	9	7
SL91-4554	3.9		3	7	6	4
SL91-4585	8.1		10	7	10	8
SL91-4587	8.1		11	7	12	7
SL91-6675	10.0		14	8	14	6
SL91-6988	8.0		6	7	11	7
SL91-7358	11.0		12	8	13	10
U93-2109	3.2		3	4	7	1
U93-3116	3.6		2	5	5	5
U93-3122	2.8		2	5	3	3
U93-3204	9.1		9	8	14	9
U93-3228	4.9		2	4	4	6
U93-3323	7.9		10	6	13	8
U93-3420	8.1		11	8	11	7
U93-3434	9.4		10	9	13	9
U93-3716	7.4		9	4	9	8
Charleston (dtl)	4.7		2	3	7	4
C1901	5.4		7	4	6	3
C1902	6.0		7	5	9	4
HC86-4367	5.7		4	6	3	10
HC89-8PR	4.4		2	6	2	5
HC89-79	6.0		4	7	6	1
HC89-1389	6.7		6	6	12	4
HC89-1523	8.0		10	6	11	7
HC90-180PR	5.0		2	6	3	4
Date Planted	05/16		05/16	05/19	05/20	05/24
Days to Mature	123.4		125	119	124	123

PRELIMINARY TEST IIIB, 1994

MATURITY (date)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	9	4	12	3	5
IA2007 (II)	-1	-3	-3	-2	-3
Resnik (III)	09/11	09/16	09/14	09/19	09/14
C1889	7	3	12	1	6
C1890	5	2	3	2	3
C1891	9	8	12	4	9
C1896	2	0	8	-1	0
HF92-078	3	2	4	0	5
HF92-079	7	5	7	3	5
HF92-083	0	4	8	1	4
HF92-176	2	1	1	2	5
HF92-178	5	2	5	1	5
SL87-16119	9	2	9	2	6
SL90-3185	11	8	13	3	7
SL90-3695	9	5	12	3	7
SL91-4554	3	4	4	0	4
SL91-4585	10	5	16	2	5
SL91-4587	7	5	16	2	6
SL91-6675	8	10	16	4	10
SL91-6988	9	11	12	3	6
SL91-7358	9	13	16	3	15
U93-2109	2	3	5	1	3
U93-3116	5	4	4	-1	3
U93-3122	2	2	3	1	4
U93-3204	8	8	15	3	8
U93-3228	8	4	9	2	5
U93-3323	3	8	14	3	6
U93-3420	7	9	9	4	7
U93-3434	8	10	16	3	7
U93-3716	9	5	15	2	6
Charleston (dtl)	3	4	16	1	2
C1901	8	4	13	-1	5
C1902	8	5	8	3	5
HC86-4367	10	4	9	2	3
HC89-8PR	8	3	9	3	2
HC89-79	11	4	14	5	2
HC89-1389	7	4	14	3	4
HC89-1523	10	4	16	3	5
HC90-180PR	7	1	15	3	4
Date Planted	05/13	05/19	05/17	05/10	05/10
Days to Mature	121	120	120	132	127

PRELIMINARY TEST IIIB, 1994

LODGING (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.5	1.8	1.8	1.1	2.3	2.0
IA2007 (II)	1.5	1.8	1.6	1.0	2.8	1.0
Resnik (III)	1.6	1.8	1.8	1.0	2.8	1.5
C1889	1.6	1.9	1.8	1.0	2.3	2.0
C1890	1.8	1.8	1.8	1.0	3.3	2.0
C1891	1.7	2.0	1.7	1.0	2.8	2.0
C1896	1.6	1.8	1.8	1.0	2.5	2.0
HF92-078	2.0	2.3	1.8	1.0	3.3	2.0
HF92-079	1.8	2.2	1.8	1.0	2.3	2.0
HF92-083	2.0	2.1	1.9	1.0	3.0	3.0
HF92-176	1.4	1.9	1.6	1.0	2.3	1.0
HF92-178	1.8	2.1	2.0	1.0	2.8	2.0
SL87-16119	2.1	2.3	2.6	1.0	3.3	2.0
SL90-3185	1.8	1.8	2.0	1.0	2.8	3.0
SL90-3695	1.5	1.9	1.7	1.0	2.8	2.0
SL91-4554	1.4	2.0	1.7	1.0	1.8	1.5
SL91-4585	2.1	2.3	2.3	1.0	3.5	2.5
SL91-4587	2.6	3.4	3.3	1.0	3.5	2.0
SL91-6675	1.8	2.0	1.9	1.0	2.8	2.0
SL91-6988	1.6	1.9	1.7	1.0	2.3	2.0
SL91-7358	1.8	2.2	1.9	1.0	2.5	2.0
U93-2109	1.6	1.7	1.7	1.0	2.5	1.5
U93-3116	1.4	1.8	1.7	1.0	1.5	1.0
U93-3122	1.5	1.8	1.6	1.0	2.3	1.5
U93-3204	2.0	2.1	1.9	1.0	2.8	2.5
U93-3228	1.9	2.1	1.8	1.0	3.0	2.0
U93-3323	1.8	2.1	1.8	1.0	2.5	2.0
U93-3420	1.7	1.9	1.9	1.0	2.5	2.0
U93-3434	1.8	1.8	1.8	1.0	2.8	2.0
U93-3716	1.9	2.3	2.3	1.0	3.0	2.5
Charleston (dtl)	1.2	1.8	1.5	1.0	1.0	1.5
C1901	1.4	1.8	1.9	1.0	1.3	1.0
C1902	1.1	1.8	1.6	1.0	1.0	1.0
HC86-4367	1.1	1.7	1.3	1.0	1.0	1.0
HC89-8PR	1.1	1.8	1.2	1.0	1.0	1.0
HC89-79	1.3	1.9	1.9	1.0	1.8	1.0
HC89-1389	1.3	1.8	1.4	1.0	1.8	1.5
HC89-1523	1.2	1.7	1.4	1.0	1.0	1.0
HC90-180PR	1.3	1.8	1.5	1.0	1.0	1.0

PRELIMINARY TEST IIIB, 1994

LODGING (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	1.5	1.0	1.0	1.1	1.8
IA2007 (II)	1.0	1.0	2.0	1.0	1.8
Resnik (III)	1.3	1.0	1.0	1.0	2.3
C1889	1.3	1.0	1.5	1.1	2.3
C1890	1.5	1.5	1.5	1.0	2.8
C1891	1.5	1.0	1.5	1.0	2.8
C1896	1.3	1.0	1.5	1.0	2.5
HF92-078	1.5	2.0	1.5	1.1	3.5
HF92-079	1.8	1.0	2.5	1.0	2.5
HF92-083	1.8	1.0	2.0	1.0	3.0
HF92-176	1.5	1.0	1.0	1.0	1.3
HF92-178	1.5	1.0	1.5	1.0	3.0
SL87-16119	1.8	2.0	2.0	1.0	3.0
SL90-3185	1.8	1.0	2.0	1.0	1.8
SL90-3695	1.5	1.0	1.0	1.0	1.5
SL91-4554	1.3	1.0	1.0	1.0	2.0
SL91-4585	2.0	1.0	2.0	1.6	2.8
SL91-4587	3.0	1.0	3.0	1.6	4.3
SL91-6675	1.8	1.0	2.0	1.3	1.8
SL91-6988	1.8	1.0	1.0	1.0	1.8
SL91-7358	2.0	1.0	2.0	1.5	1.8
U93-2109	1.3	1.0	1.5	1.0	2.3
U93-3116	1.5	1.5	1.0	1.0	1.5
U93-3122	1.5	1.0	1.0	1.2	1.8
U93-3204	2.5	1.0	2.0	1.3	2.5
U93-3228	2.0	1.0	2.0	1.0	3.0
U93-3323	2.0	1.5	1.5	1.6	1.8
U93-3420	2.5	1.0	1.5	1.2	1.3
U93-3434	2.0	1.0	2.0	1.1	2.0
U93-3716	1.5	1.0	2.0	1.0	2.0
Charleston (dtl)	1.0	1.0	1.5	1.1	1.0
C1901	1.0	1.5	1.5	1.0	1.5
C1902	1.0	1.0	1.0	1.0	1.0
HC86-4367	1.0	1.0	1.0	1.0	1.0
HC89-8PR	1.0	1.0	1.0	1.0	1.0
HC89-79	1.0	1.0	1.0	1.0	1.3
HC89-1389	1.0	1.0	1.0	1.0	1.5
HC89-1523	1.0	1.0	1.5	1.0	1.0
HC90-180PR	1.0	1.5	2.0	1.0	1.3

PRELIMINARY TEST IIIB, 1994

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	38	42	43	32	40	44
IA2007 (II)	36	42	48	28	36	32
Resnik (III)	36	39	41	30	34	39
C1889	39	44	46	28	36	45
C1890	38	42	47	31	39	41
C1891	43	46	52	39	42	48
C1896	34	34	40	29	35	31
HF92-078	40	44	48	35	40	41
HF92-079	38	42	44	32	38	40
HF92-083	42	42	52	37	42	45
HF92-176	36	39	44	32	38	31
HF92-178	42	46	46	37	42	48
SL87-16119	42	42	52	36	42	47
SL90-3185	35	39	39	28	35	34
SL90-3695	41	44	46	35	40	43
SL91-4554	36	44	45	30	38	27
SL91-4585	38	41	44	31	37	41
SL91-4587	40	45	47	33	39	46
SL91-6675	41	44	46	33	43	49
SL91-6988	40	44	46	32	40	44
SL91-7358	40	42	48	34	44	43
U93-2109	37	40	47	26	39	43
U93-3116	36	38	41	28	35	35
U93-3122	35	38	42	28	35	37
U93-3204	38	41	48	31	39	40
U93-3228	36	42	42	28	35	39
U93-3323	40	46	48	30	39	44
U93-3420	39	45	46	33	39	41
U93-3434	40	44	48	34	42	40
U93-3716	39	44	48	33	40	39
Charleston (dtl)	26	30	29	25	27	22
C1901	27	31	34	24	28	26
C1902	25	31	29	22	23	20
HC86-4367	24	30	29	20	23	23
HC89-8PR	25	30	29	20	24	16
HC89-79	26	29	33	24	26	25
HC89-1389	26	31	29	21	25	39
HC89-1523	26	30	31	21	27	26
HC90-180PR	26	32	31	23	28	21

PRELIMINARY TEST IIIB, 1994

PLANT HEIGHT (inches)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	27	38	45	34	36
IA2007 (II)	25	41	45	30	36
Resnik (III)	27	40	43	31	37
C1889	29	42	50	34	37
C1890	27	41	48	31	37
C1891	32	46	53	38	38
C1896	26	36	42	30	32
HF92-078	26	45	50	36	37
HF92-079	27	40	49	32	37
HF92-083	29	49	51	35	39
HF92-176	27	41	45	30	36
HF92-178	29	41	52	38	39
SL87-16119	32	45	52	35	39
SL90-3185	25	36	45	30	34
SL90-3695	32	45	50	36	39
SL91-4554	28	41	45	29	37
SL91-4585	29	40	47	33	35
SL91-4587	30	40	53	34	36
SL91-6675	31	45	50	34	39
SL91-6988	30	43	50	34	40
SL91-7358	30	43	48	34	38
U93-2109	31	36	44	31	37
U93-3116	27	42	44	31	34
U93-3122	27	38	42	31	33
U93-3204	29	42	45	32	37
U93-3228	26	41	44	29	34
U93-3323	26	44	47	35	36
U93-3420	28	42	47	31	37
U93-3434	28	46	49	34	39
U93-3716	30	43	46	31	36
Charleston (dtl)	17	28	31	25	25
C1901	16	28	32	22	29
C1902	17	26	30	24	23
HC86-4367	15	25	31	25	21
HC89-8PR	14	35	31	23	25
HC89-79	15	27	32	26	27
HC89-1389	14	24	32	23	26
HC89-1523	15	30	33	22	25
HC90-180PR	15	30	34	22	26

PRELIMINARY TEST IIIB, 1994

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	1.6	2.0	1.0	1.5	1.0	2.0
IA2007 (II)	2.1	2.5	2.0	1.8	1.5	3.0
Resnik (III)	1.8	2.0	1.5	1.5	1.0	2.0
C1889	2.1	2.5	2.5	2.5	1.0	2.0
C1890	2.2	2.0	2.0	2.0	1.0	3.0
C1891	1.9	1.5	2.5	1.5	1.0	3.0
C1896	2.4	2.0	3.5	1.8	1.5	3.0
HF92-078	1.8	1.0	1.5	1.5	1.0	2.0
HF92-079	1.8	2.0	1.0	1.8	1.5	3.0
HF92-083	1.8	1.5	1.5	1.5	1.5	2.0
HF92-176	1.7	1.5	1.5	1.5	1.0	2.0
HF92-178	1.7	1.5	1.0	1.5	1.0	2.0
SL87-16119	1.7	2.0	1.5	1.8	1.0	3.0
SL90-3185	1.8	2.0	1.5	1.8	1.0	2.0
SL90-3695	2.1	2.5	2.0	2.0	1.0	3.0
SL91-4554	1.8	3.0	2.0	1.8	1.0	2.0
SL91-4585	1.8	2.0	2.0	2.0	1.0	2.0
SL91-4587	1.9	2.0	2.0	1.8	1.5	3.0
SL91-6675	1.7	2.0	1.5	1.5	1.0	2.0
SL91-6988	1.6	2.0	1.5	1.5	1.0	2.0
SL91-7358	1.7	2.5	2.0	1.5	1.0	2.0
U93-2109	2.3	2.5	1.5	1.5	1.5	5.0
U93-3116	1.9	2.5	1.0	1.8	1.5	3.0
U93-3122	1.8	1.5	1.0	1.8	1.5	2.0
U93-3204	1.9	1.5	2.0	1.5	1.5	3.0
U93-3228	1.7	2.0	1.5	1.8	1.0	2.0
U93-3323	1.6	1.5	1.0	1.5	1.0	2.0
U93-3420	1.6	3.0	1.5	1.8	1.0	1.0
U93-3434	1.7	1.5	1.5	2.0	1.0	2.0
U93-3716	2.5	3.0	1.5	2.5	1.5	4.0
Charleston (dtl)	1.6	2.0	1.5	1.8	1.0	1.0
C1901	1.8	1.5	2.0	1.8	1.0	2.0
C1902	1.9	2.0	2.0	1.8	1.0	2.0
HC86-4367	1.7	2.0	1.5	1.5	1.0	2.0
HC89-8PR	1.8	1.5	1.5	1.8	1.0	2.0
HC89-79	1.5	1.0	1.5	1.5	1.0	3.0
HC89-1389	1.8	2.0	1.5	2.3	1.0	3.0
HC89-1523	1.6	1.5	1.0	1.8	1.0	2.0
HC90-180PR	1.9	2.0	2.0	1.5	1.0	2.0

PRELIMINARY TEST IIIB, 1994

SEED QUALITY (score)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)	2.5	1.5	2.0	1.0	1.0
IA2007 (II)	3.0	2.5	2.5	1.0	1.0
Resnik (III)	3.0	3.0	1.5	1.0	1.5
C1889	3.0	3.0	2.0	1.0	1.0
C1890	3.0	4.0	1.5	1.0	2.0
C1891	2.5	3.0	1.5	1.0	1.0
C1896	4.0	3.0	3.0	1.0	1.5
HF92-078	1.5	4.0	2.0	2.0	1.5
HF92-079	2.0	2.5	1.5	1.0	1.5
HF92-083	3.0	3.0	2.0	1.0	1.0
HF92-176	2.5	3.0	1.5	1.0	1.0
HF92-178	2.0	3.0	3.0	1.0	1.0
SL87-16119	2.0	2.0	2.0	1.0	1.0
SL90-3185	3.0	3.5	1.5	1.0	1.0
SL90-3695	3.0	2.5	2.5	1.0	1.0
SL91-4554	2.0	2.0	2.0	1.0	1.5
SL91-4585	2.5	2.0	2.0	1.0	1.0
SL91-4587	2.5	3.0	1.0	1.0	1.0
SL91-6675	2.0	3.0	2.0	1.0	1.0
SL91-6988	3.0	2.0	1.0	1.0	1.0
SL91-7358	3.5	1.0	1.0	1.0	1.5
U93-2109	3.0	3.0	2.5	1.0	1.0
U93-3116	2.5	3.0	1.5	1.0	1.5
U93-3122	3.0	3.0	1.5	1.0	1.5
U93-3204	3.0	2.0	2.0	1.0	1.5
U93-3228	2.5	3.0	1.5	1.0	1.0
U93-3323	3.0	2.0	1.5	1.0	1.5
U93-3420	3.0	2.0	1.0	1.0	1.0
U93-3434	2.5	2.5	2.0	1.0	1.0
U93-3716	3.0	3.0	3.0	1.0	2.0
Charleston (dtl)	3.0	2.0	2.0	1.0	1.0
C1901	3.5	3.0	1.0	1.0	1.0
C1902	4.0	2.0	1.5	1.0	1.5
HC86-4367	2.0	3.0	2.0	1.0	1.0
HC89-8PR	2.5	3.0	2.5	1.0	1.0
HC89-79	1.5	2.0	1.0	1.0	1.0
HC89-1389	2.5	2.0	2.0	1.0	1.0
HC89-1523	2.5	3.0	1.5	1.0	1.0
HC90-180PR	2.5	3.0	2.5	1.0	1.0

PRELIMINARY TEST IIIB, 1994

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fair-field IA	Stuart IA	Urbana IL	Lafay-ette IN	Man-hattan KS
Flyer (IV)	15.9	14.2	16.6	16.4	17.1	15.5
IA2007 (II)	17.9	18.0	18.0	17.7	19.2	18.5
Resnik (III)	16.5	15.3	17.2	15.3	16.3	15.8
C1889	18.3	18.2	19.0	20.0	19.2	18.5
C1890	18.8	16.8	19.2	18.9	19.7	18.9
C1891	17.1	16.2	16.9	17.2	18.8	17.1
C1896	20.5	18.8	21.6	21.7	22.3	21.6
HF92-078	17.6	16.2	17.6	17.0	17.8	17.6
HF92-079	17.4	16.2	18.1	18.0	18.3	17.9
HF92-083	17.1	16.4	18.0	16.7	19.1	17.0
HF92-176	16.1	15.0	16.4	16.8	16.4	15.0
HF92-178	16.2	15.6	16.5	16.1	17.8	16.7
SL87-16119	17.7	17.2	18.7	19.2	17.6	17.9
SL90-3185	17.4	16.8	18.0	18.5	18.6	16.6
SL90-3695	16.6	16.0	17.3	17.5	17.5	15.6
SL91-4554	15.5	14.2	16.2	16.1	16.4	15.2
SL91-4585	17.8	17.0	19.2	19.6	19.4	17.2
SL91-4587	18.3	17.4	19.4	20.0	18.7	18.1
SL91-6675	16.7	15.9	17.4	17.7	18.0	16.0
SL91-6988	18.8	17.8	19.8	19.7	20.9	19.6
SL91-7358	16.1	15.2	16.6	17.2	17.1	15.3
U93-2109	16.9	15.6	17.6	17.4	17.5	----
U93-3116	16.1	15.2	16.4	17.3	16.3	16.0
U93-3122	16.9	15.8	17.2	18.8	17.7	17.4
U93-3204	19.6	19.6	21.0	21.6	21.6	18.5
U93-3228	18.7	18.5	18.9	19.8	18.6	19.1
U93-3323	16.9	16.4	17.6	17.0	18.2	14.0
U93-3420	16.4	16.0	16.8	16.7	18.5	15.2
U93-3434	18.5	17.6	19.0	19.4	21.3	18.5
U93-3716	16.8	16.0	16.4	17.9	17.7	17.2
Charleston (dtl)	16.5	16.1	16.7	17.1	16.9	15.7
C1901	15.3	13.9	15.4	15.8	16.8	14.7
C1902	16.9	15.6	17.8	18.7	16.7	18.0
HC86-4367	14.8	14.3	15.6	14.4	14.5	14.6
HC89-8PR	17.7	17.9	18.6	17.3	18.3	18.2
HC89-79	15.9	14.6	15.8	16.7	15.5	16.0
HC89-1389	17.4	16.8	18.6	18.9	18.2	16.1
HC89-1523	16.5	15.8	17.3	17.6	15.9	16.2
HC90-180PR	17.3	16.0	18.0	18.6	17.7	17.7

PRELIMINARY TEST IIIB, 1994

SEED SIZE (g/100)

Strain	Columbia MO	David City NE	Tekamah NE	Hoyt-ville OH	So. Charles-ton OH
Flyer (IV)		16.1	15.9	17.0	14.7
IA2007 (II)		17.6	18.6	15.6	17.5
Resnik (III)		16.6	16.0	20.1	15.5
C1889		18.6	18.8	15.9	16.9
C1890		20.7	18.8	18.8	17.7
C1891		16.9	16.1	19.6	15.4
C1896		21.9	20.3	17.2	18.8
HF92-078		16.4	17.3	21.8	16.4
HF92-079		17.3	17.1	17.3	16.3
HF92-083		16.8	17.4	16.9	15.8
HF92-176		16.5	15.8	17.4	15.5
HF92-178		15.8	16.0	16.6	14.9
SL87-16119		17.7	18.5	16.8	15.6
SL90-3185		17.8	17.6	17.0	16.1
SL90-3695		16.0	16.4	16.6	16.2
SL91-4554		15.5	16.0	16.1	14.2
SL91-4585		17.8	18.0	15.9	16.0
SL91-4587		18.9	18.3	18.1	16.2
SL91-6675		15.9	16.1	18.0	15.6
SL91-6988		18.4	19.4	15.9	17.8
SL91-7358		14.7	16.0	18.8	14.2
U93-2109		18.1	17.4	15.0	16.3
U93-3116		16.7	15.5	17.6	14.1
U93-3122		16.6	17.0	15.4	15.9
U93-3204		19.2	21.1	16.2	17.8
U93-3228		18.1	18.5	19.6	17.2
U93-3323		16.3	17.1	19.9	15.2
U93-3420		15.6	17.0	16.8	14.8
U93-3434		18.0	18.4	16.4	17.6
U93-3716		16.9	16.6	17.7	15.0
Charleston (dtl)		15.9	17.6	17.7	15.0
C1901		15.6	15.4	15.7	14.3
C1902		17.1	17.5	15.7	15.2
HC86-4367		14.6	15.3	16.8	12.8
HC89-8PR		19.3	19.1	14.0	16.3
HC89-79		15.5	16.8	18.2	14.3
HC89-1389		17.7	18.1	15.8	16.6
HC89-1523		15.8	17.3	18.2	14.7
HC90-180PR		17.2	18.5	16.5	15.2

PRELIMINARY TEST IIIB, 1994

PROTEIN (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Flyer (IV)	42.4	41.7	40.9	43.4	43.4
IA2007 (II)	40.6	40.5	39.1	41.9	41.0
Resnik (III)	41.8	42.2	40.7	42.2	41.9
C1889	46.5	46.2	44.2	47.0	48.4
C1890	41.5	41.6	39.9	41.9	42.6
C1891	41.4	40.4	40.7	42.2	42.1
C1896	41.2	41.7	39.2	42.7	41.3
HF92-078	40.9	40.9	39.2	41.0	42.3
HF92-079	42.0	41.4	40.9	42.6	43.1
HF92-083	40.6	40.5	39.0	41.5	41.5
HF92-176	41.7	42.0	40.4	41.4	42.8
HF92-178	40.1	39.7	39.0	40.0	41.8
SL87-16119	40.9	41.1	40.2	41.1	41.1
SL90-3185	42.6	41.5	42.3	43.4	43.1
SL90-3695	42.2	43.2	40.5	42.9	42.2
SL91-4554	41.0	41.4	39.9	41.5	41.3
SL91-4585	42.6	41.9	42.0	42.9	43.4
SL91-4587	42.6	41.9	41.6	43.5	43.2
SL91-6675	41.2	41.4	40.5	41.7	41.2
SL91-6988	41.8	41.5	40.3	42.8	42.5
SL91-7358	40.9	40.8	39.9	41.0	41.7
U93-2109	41.3	40.9	40.3	42.2	41.9
U93-3116	41.8	41.1	40.7	43.2	42.3
U93-3122	41.2	41.1	40.1	42.3	41.2
U93-3204	41.0	40.9	40.1	41.8	41.1
U93-3228	42.1	41.6	41.2	42.4	43.1
U93-3323	40.1	39.5	39.3	40.9	40.6
U93-3420	42.2	41.9	41.4	42.7	42.6
U93-3434	43.2	42.4	42.7	44.0	43.8
U93-3716	40.3	39.5	38.8	41.2	41.7
Charleston (dtl)	42.0	42.0	40.5	42.9	42.7
C1901	39.4	39.9	37.4	40.5	39.7
C1902	40.6	41.2	38.8	41.5	40.8
HC86-4367	40.3	40.9	38.5	41.2	40.7
HC89-8PR	41.2	41.9	39.0	42.2	41.6
HC89-79	42.5	41.5	40.8	43.4	44.3
HC89-1389	41.7	41.5	40.3	43.6	41.5
HC89-1523	41.8	41.5	40.7	42.5	42.6
HC90-180PR	39.4	39.9	38.3	39.8	39.5

PRELIMINARY TEST IIIB, 1994

OIL (%)

Strain	Mean 4 Tests	Stuart IA	Urbana IL	Lafayette IN	Hoytville OH
Flyer (IV)	20.6	20.9	20.9	20.4	20.0
IA2007 (II)	20.6	20.3	21.3	20.6	20.0
Resnik (III)	20.6	20.1	21.1	20.9	20.4
C1889	19.2	19.1	20.6	18.7	18.3
C1890	20.5	20.3	21.4	20.4	19.8
C1891	20.4	19.4	21.1	21.0	20.1
C1896	20.3	20.2	20.4	20.4	20.1
HF92-078	20.5	20.7	20.9	20.7	19.8
HF92-079	20.3	20.2	21.0	20.3	19.5
HF92-083	20.4	20.1	21.1	20.5	19.8
HF92-176	20.5	20.4	21.3	20.3	20.0
HF92-178	20.6	20.5	21.2	20.5	20.0
SL87-16119	20.7	20.7	21.2	20.5	20.2
SL90-3185	19.9	20.2	20.5	20.0	19.0
SL90-3695	20.6	20.6	21.3	20.4	19.9
SL91-4554	20.3	20.4	20.7	20.4	19.5
SL91-4585	20.2	20.0	20.6	20.4	19.7
SL91-4587	20.6	20.5	21.9	20.2	19.8
SL91-6675	20.3	20.4	20.7	20.5	19.6
SL91-6988	20.4	20.6	20.8	20.1	20.1
SL91-7358	20.6	20.8	21.0	20.2	20.3
U93-2109	20.3	20.1	20.9	20.4	19.9
U93-3116	20.2	20.8	20.6	19.8	19.7
U93-3122	20.2	19.9	20.7	20.5	19.7
U93-3204	20.3	20.0	20.7	20.8	19.8
U93-3228	20.6	20.5	20.9	21.1	19.9
U93-3323	20.5	20.3	21.1	20.5	20.1
U93-3420	20.9	20.9	21.8	20.7	20.3
U93-3434	20.3	20.5	20.7	20.3	19.8
U93-3716	20.1	20.0	21.1	20.0	19.2
Charleston (dtl)	20.3	20.0	21.1	20.4	19.5
C1901	20.1	20.0	20.4	20.2	19.9
C1902	20.7	20.4	21.4	20.5	20.6
HC86-4367	20.5	19.9	21.4	20.4	20.2
HC89-8PR	20.8	20.6	21.8	20.7	20.1
HC89-79	20.8	21.1	21.7	20.6	19.8
HC89-1389	20.4	20.6	20.9	20.4	19.7
HC89-1523	20.9	21.0	21.6	20.8	20.1
HC90-180PR	20.9	20.5	22.0	20.7	20.5

UNIFORM TEST IV, 1994

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Delsoy 4210	(Williams x PI 88.788) x (Union x Douglas)	6	F6	SCN 3,4
Flyer (E)	Asgrow A3127[4] x Williams 82	7	BC3 F2	Rps1-k
KS4694 (L)	Sherman x Toano	3	F5	
Ripley (dt1)	Hodgson x V68-1034	2	F5	dt1
Spencer (IV)	A75-305022 x Century	9	F5	
HC89-314 (dt1)	Hobbit 87 x HC80-1944	PTIVB	F5	dt1
HC89-2165	HC80-1946 x Asgrow A3127	PTIVA	F5	Dt1
HC89-2170	HC80-1946 x Asgrow A3127	1	F5	Dt1
HM9196	Will x Asgrow A3127	1	F5	
HN9197	HM8372 x HM8477	1	F5	
HS91-4825	Burlison x A86-301024	PTIVB	F5	Rps1-b
HS91-4836	GR8936 x (HM8580 x GR8936)	PTIVB	F5	Rps1-k
K1213	Hutcheson x Asgrow A3427	2	F5	
K1231	Elgin x Asgrow A3427	1	F5	
K1262	Spencer x DeKalb Pfizer CX415	PTIVA	F5	
Ky88-5037	Asgrow A4595 x DeKalb Pfizer CX415	2	F5	
Ky90-1208	Asgrow A3935 x Hutcheson	PTIVB	F5	
Ky90-2713	Spencer x Hutcheson	PTIVB	F5	
LN89-1179	Sherman x Asgrow A3205	1	F5	
LN89-3615	Hobbit 87 x Asgrow A3205	1	F5	Rps1-k
LN90-3216	LN84-452 x Asgrow A3733	PTIVA	F5	
LN90-4129	Burlison x Asgrow A3733	PTIVA	F5	hm (het)
LS92-1800	Fayette x Pyramid	Resel. LS87-1311	F5	
S91-5371-17	Williams(2) x (Forrest x PI437654)	SCN PIV	F4	
S91-5371-19	Williams(2) x (Forrest x PI437654)	SCN PIV	F4	

* Number of years in test or name of 1993 test.

UNIFORM TEST IV, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlo. Score Lamber-ton	Shattering Score Man-hattan	Ott-awa	Tope-ka	PR Emerg. Score Ames	Custar Root Rot Race 25	Laf. Race 7	PS Laf. a %	PSB Vin. n %
Delsoy 4210	WTTIYBlI	2.0	1	1	1	4	3.5	S	8	32
Flyer (E)	PTTIYBlI	3.0	1	1	1	1	3.4	R	8	4
KS4694 (L)	WGBrSYBfI	2.5	1	1	1	1	3.7	S	18	12
Ripley (dtl)	PGTSYBfD	2.5	1	1	1	1	3.1	H	0	4
Spencer (IV)	WTBrDYBrI	2.0	2	2	2	5	3.6	S	9	16
HC89-314 (dtl)	WTTDYBlD	2.0	1	1	1	1	3.7	R	1	0
HC89-2165	PTTDYBlI	2.0	1	1	1	2	2.9	S	5	4
HC89-2170	PTTDYBlI	2.5	1	1	1	3	2.6	S	3	8
HM9196	PTTIYBlI	3.0	1	1	1	1	3.8	R	1	8
HN9197	PTTIYBlI	2.0	1	1	1	1	3.6	R	8	2
HS91-4825	P+WG+TTSYHetI	3.5	1	1	1	1	3.6	R	8	4
HS91-4836	WTBrDYBlI	2.0	2	2	2	1	3.0	R	4	2
K1213	PTTDYHetI	3.5	1	1	1	1	3.4	S	3	8
K1231	PTBrDYBlI	2.0	1	1	1	1	3.0	R	6	4
K1262	WTBrDYBrI	2.5	1	1	1	1	2.9	R	49	20
Ky88-5037	WTTIYBlI	2.0	1	1	1	1	2.4	R	---	12
Ky90-1208	WTT+BrDYBl+Br	3.5	1	1	1	1	3.0	S	23	4
Ky90-2713	WTBrIYBrI	2.0	1	1	1	4	3.3	S	17	10
LN89-1179	WGTSYBfI	4.0	1	1	1	4	4.4	S	24	16
LN89-3615	PTT+BrSYBrI	3.5	1	1	1	1	3.2	R	1	9
LN90-3216	WTTDYBlI	2.0	1	1	1	1	5.6	S	5	9
LN90-4129	PTTDYBlI	2.5	1	1	1	1	3.5	R	3	9
LS92-1800	WTTSYBlI	2.0	1	1	1	5	2.9	S	1	4
S91-5371-17	P+WTBrSYBlI	3.0	1	1	1	3	2.7	S	3	8
S91-5371-19	P+WTBrSYBlI	2.5	1	1	1	1	2.4	R	3	16

UNIFORM TEST IV, 1994

SDS DATA

Strain	SDS Data				
	Villa Ridge				
	RDate	R6DI	R6DS	R6DX	DX Rank
Delsoy 4210	99.0	9.0	0.9	-0.1	3
Flyer (E)	93.0	44.0	1.3	9.1	14
KS4694 (L)	101.0	57.0	1.1	6.9	11
Ripley (dtl)	89.0	1.0	0.9	-0.9	2
Spencer (IV)	97.0	100.0	3.0	33.5	29
HC89-314 (dtl)	92.0	78.0	1.4	12.0	18
HC89-2165	100.0	92.0	2.4	25.5	25
HC89-2170	98.0	95.0	2.8	29.3	27
HM9196	96.0	101.0	1.6	17.7	20
HN9197	97.0	89.0	1.1	9.7	16
HS91-4825	95.0	66.0	1.2	9.2	15
HS91-4836	96.0	60.0	1.1	8.0	12
K1213	96.0	99.0	3.0	33.1	27
K1231	98.0	99.0	1.4	15.9	19
K1262	98.0	101.0	1.7	19.4	21
Ky88-5037	100.0	59.0	1.1	8.8	13
Ky90-1208	96.0	99.0	3.2	35.1	30
Ky90-2713	100.0	103.0	2.2	24.9	24
LN89-1179	95.0	98.0	1.9	20.6	22
LN89-3615	97.0	95.0	2.0	22.3	23
LN90-3216	96.0	69.0	1.3	11.4	17
LN90-4129	97.0	41.0	1.0	5.1	8
LS92-1800	97.0	38.0	1.2	6.4	10
S91-5371-17	99.0	5.0	0.9	-1.0	1
S91-5371-19	102.0	14.0	1.1	2.3	5

UNIFORM TEST IV, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 16 Date	Lodging 19 Score	Plant Height 19 In.	Seed Quality 18 Score	Seed Size 17 g/100	Composition Protein 3 %	 Oil 3 %
Delsoy 4210	56.4	12	2.6	2.4	42	1.6	18.0	41.7	20.8
Flyer (E)	55.0	18	-4.9	1.5	34	1.5	14.1	41.4	20.9
KS4694 (L)	55.1	17	6.4	1.7	37	1.5	17.0	40.0	20.7
Ripley (dtl)	51.7	22	-2.6	1.2	22	1.2	13.4	40.0	20.7
Spencer (IV)	56.3	13	09/24	1.5	38	1.5	18.3	40.8	21.3
HC89-314 (dtl)	51.4	23	-3.2	1.1	22	1.5	17.4	42.6	20.8
HC89-2165	58.1	4	-0.3	2.1	41	1.4	12.9	40.4	21.2
HC89-2170	58.2	3	0.8	2.0	40	1.3	13.9	42.0	21.0
HM9196	56.3	13	-4.4	1.5	33	1.5	14.7	40.8	21.0
HN9197	56.6	11	-3.8	1.4	33	1.3	15.4	42.1	21.1
HS91-4825	57.2	8	-2.8	1.5	34	1.6	16.9	40.4	20.1
HS91-4836	54.1	21	-2.3	1.6	36	1.7	17.9	42.5	20.6
K1213	54.8	19	-0.3	1.9	38	1.5	15.0	40.9	20.7
K1231	58.1	4	-1.2	1.8	35	1.5	17.2	39.9	20.9
K1262	56.2	15	2.1	1.8	39	1.5	17.1	41.7	20.9
Ky88-5037	56.0	16	5.2	2.2	42	1.5	15.1	40.5	20.7
Ky90-1208	58.7	1	1.5	2.1	38	1.6	15.2	40.5	21.6
Ky90-2713	57.5	7	4.1	2.1	45	1.8	18.4	39.9	20.9
LN89-1179	57.1	9	-1.3	1.5	35	1.6	15.4	40.3	20.7
LN89-3615	58.3	2	1.5	1.7	34	1.5	14.8	40.7	21.5
LN90-3216	57.7	6	-2.8	1.4	36	1.5	15.5	41.4	21.3
LN90-4129	57.1	9	-0.6	1.9	33	1.7	20.8	41.6	21.1
LS92-1800	54.3	20	1.6	1.8	43	1.4	15.2	38.8	20.9
S91-5371-17	49.4	25	4.2	3.4	40	1.9	18.9	41.3	20.8
S91-5371-19	50.6	24	3.1	3.4	42	1.7	17.8	41.3	20.8

128.4 Days After Planting

UNIFORM TEST IV, 1994

1993-1994 2-YEAR MEAN

No. of Tests Strain	Yield 32 bu/a	Rank 32 No.	Maturity 31 Date	Lodging 36 Score	Plant Height 36 In.	Seed Quality 33 Score	Seed Size 31 g/100	Composition Protein 7 %	 Oil 7 %
Delsoy 4210 (SCN)	53.1	12	1.3	2.3	40	1.7	17.0	42.0	21.0
Flyer (E)	53.8	8	-5.2	1.4	34	1.5	13.8	42.1	21.0
KS4694 (L)	53.6	10	5.2	1.7	35	1.5	16.4	40.8	20.7
Ripley (dtl)	50.7	13	-4.1	1.2	23	1.4	13.0	40.1	21.2
Spencer (IV)	53.5	11	09/26.5	1.5	36	1.9	17.5	41.9	21.2
HC89-2170	57.7	1	-0.2	1.9	38	1.5	13.8	42.4	21.0
HM9196	54.2	6	-4.8	1.5	32	1.6	14.2	41.5	21.3
HM9197	53.9	7	-3.9	1.4	32	1.5	14.9	43.1	21.0
K1213	53.7	9	-0.1	1.9	37	1.6	14.6	42.2	20.6
K1231	55.8	3	-2.0	1.8	34	1.7	16.7	40.7	21.2
Ky88-5037	55.5	5	4.8	2.3	40	1.6	14.8	40.8	20.8
LN89-1179	55.6	4	-1.4	1.6	34	1.7	14.9	41.2	20.8
LN89-3615	56.0	2	1.3	1.7	33	1.6	14.4	41.1	21.6

129.5 Days After Planting

1992-1994 3-YEAR MEAN

No. of Tests Strain	Yield 52 bu/a	Rank 52 No.	Maturity 48 Date	Lodging 56 Score	Plant Height 56 In.	Seed Quality 53 Score	Seed Size 50 g/100	Composition Protein 12 %	 Oil 12 %
Delsoy 4210 (SCN)	53.1	6	2.1	2.3	40	1.9	17.3	41.9	20.9
Flyer (E)	53.3	4	-4.4	1.4	33	1.6	14.1	42.0	20.8
KS4694 (L)	54.4	2	5.8	1.7	35	1.6	16.5	41.1	20.6
Ripley (dtl)	50.5	7	-2.6	1.3	24	1.4	13.2	39.8	21.1
Spencer (IV)	53.2	5	09/25.7	1.4	36	2.0	17.6	41.7	21.1
K1213	53.9	3	0.3	1.8	37	1.6	14.8	42.0	20.5
Ky88-5037	56.0	1	5.5	2.3	40	1.7	14.9	40.7	20.7

128.5 Days After Planting

UNIFORM TEST IV, 1994

YIELD (bu/a)

Strain	Mean 19 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	56.4	29.1	57.5	60.9	59.8	51.9	66.6	58.9
Flyer (E)	55.0	39.5	61.9	37.5	58.9	56.4	61.4	58.7
KS4694 (L)	55.1	41.9	63.3	38.1	61.8	43.6	61.5	50.5
Ripley (dtl)	51.7	31.2	64.3	36.7	62.6	51.0	67.2	47.3
Spencer (IV)	56.3	47.6	64.3	49.5	52.2	55.2	51.7	56.3
HC89-314 (dtl)	51.4	36.4	61.2	39.9	60.3	46.8	64.4	56.5
HC89-2165	58.1	46.9	61.4	50.9	60.2	53.3	55.7	68.1
HC89-2170	58.2	48.1	60.7	51.1	59.9	50.4	58.9	65.3
HM9196	56.3	39.3	63.1	44.6	59.5	53.1	59.5	54.1
HN9197	56.6	41.4	65.9	32.0	59.2	52.3	61.8	56.5
HS91-4825	57.2	43.2	61.1	42.3	62.9	48.2	59.3	62.0
HS91-4836	54.1	40.3	60.1	35.4	55.4	50.9	65.8	57.5
K1213	54.8	39.2	58.3	43.7	61.4	50.6	47.9	59.9
K1231	58.1	39.3	63.4	42.1	58.6	50.7	62.0	54.0
K1262	56.2	38.0	64.2	49.0	56.6	48.9	51.5	61.5
Ky88-5037	56.0	38.2	57.9	49.4	61.0	42.2	62.5	60.2
Ky90-1208	58.7	40.6	64.8	48.2	67.8	54.9	49.1	64.3
Ky90-2713	57.5	43.1	61.8	55.1	55.4	52.5	57.5	69.1
LN89-1179	57.1	38.8	66.7	50.1	62.0	50.4	60.5	58.2
LN89-3615	58.3	42.9	66.4	41.1	63.6	55.0	59.5	60.7
LN90-3216	57.7	43.0	59.1	45.8	62.9	60.6	55.5	71.1
LN90-4129	57.1	37.7	64.0	39.5	68.0	55.1	66.5	61.0
LS92-1800	54.3	42.0	60.1	54.8	51.7	51.0	61.5	50.8
S91-5371-17	49.4	33.2	51.1	64.4	51.1	40.1	71.3	39.0
S91-5371-19	50.6	33.7	54.8	65.3	52.9	47.0	66.7	47.3
C.V. (%)		8.9	5.2	22.2	6.7	9.2	9.7	9.0
L.S.D. (5%)		5.9	5.3	16.5	6.3	7.6	9.6	8.7
Row Sp. (In.)		15	30	30	30	30	30	24
Rows/Plot		5	4	4	4	4	4	4
Reps		3	3	3	3	3	3	3

UNIFORM TEST IV, 1994

YIELD (bu/a)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	53.0	60.8	53.0	60.6	62.1	61.1	43.7	41.8
Flyer (E)	32.1	66.4	50.1	68.0	63.9	59.4	37.1	41.7
KS4694 (L)	39.9	68.5	54.6	64.8	65.2	61.2	37.2	43.7
Ripley (dtl)	36.4	64.7	46.8	62.8	50.6	54.5	42.4	36.9
Spencer (IV)	37.0	60.1	55.4	61.5	59.1	58.5	46.1	42.5
HC89-314 (dtl)	21.2	62.7	52.9	56.6	50.6	47.5	36.5	38.1
HC89-2165	41.4	70.7	50.2	63.1	57.2	64.3	46.6	38.2
HC89-2170	35.5	72.1	52.6	64.8	55.0	59.6	44.3	45.6
HM9196	34.5	71.3	55.9	70.1	51.4	59.8	45.6	39.2
HN9197	42.6	67.7	48.1	68.9	62.2	61.8	45.2	38.3
HS91-4825	37.4	72.9	54.9	63.9	57.9	61.4	50.2	43.0
HS91-4836	39.7	70.6	53.8	53.8	53.9	58.4	35.3	42.2
K1213	29.9	62.6	57.6	57.8	61.4	58.3	45.3	42.8
K1231	41.9	66.0	55.5	66.2	64.7	66.0	53.9	49.1
K1262	34.0	71.4	51.1	62.6	55.3	59.5	45.8	45.6
Ky88-5037	38.4	60.5	54.4	72.7	57.2	60.0	45.3	43.2
Ky90-1208	45.3	75.6	54.1	72.6	59.1	56.0	49.5	41.0
Ky90-2713	38.8	57.6	56.2	57.5	62.1	59.4	43.1	41.2
LN89-1179	48.8	65.7	60.2	68.4	46.4	60.1	42.3	41.1
LN89-3615	39.0	68.5	53.3	66.2	61.5	60.8	51.7	40.7
LN90-3216	40.7	65.3	51.0	75.1	45.3	64.2	47.3	40.5
LN90-4129	38.2	69.8	53.4	61.5	60.1	61.0	39.3	43.8
LS92-1800	52.5	49.0	50.7	57.3	60.3	54.8	57.4	39.0
S91-5371-17	38.0	63.4	42.9	57.3	57.3	52.5	44.6	37.7
S91-5371-19	47.0	60.0	39.0	49.6	62.7	52.6	42.8	39.4
C.V. (%)	17.8	5.7	6.0	10.2	12.6	5.5	13.1	6.5
L.S.D. (5%)	11.6	6.1	5.2	10.5	7.7	5.3	9.6	4.4
Row Sp. (In.)	26	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3

UNIFORM TEST IV, 1994

YIELD (bu/a)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	53.7	51.0	70.0	76.6
Flyer (E)	54.4	54.0	71.7	71.4
KS4694 (L)	56.4	54.9	67.0	72.0
Ripley (dtl)	56.3	52.5	62.1	56.0
Spencer (IV)	54.8	63.7	74.4	80.1
HC89-314 (dtl)	55.9	56.6	68.7	64.7
HC89-2165	62.1	60.5	71.5	81.4
HC89-2170	61.2	63.8	72.2	85.4
HM9196	55.9	61.7	74.3	75.9
HN9197	58.3	62.8	76.1	74.8
HS91-4825	62.3	57.4	72.4	73.4
HS91-4836	51.5	58.8	73.0	71.3
K1213	60.6	58.6	72.3	73.6
K1231	58.4	54.9	74.1	83.0
K1262	60.2	61.4	73.8	77.2
Ky88-5037	56.4	60.4	71.3	73.1
Ky90-1208	59.9	60.2	74.1	77.6
Ky90-2713	62.3	60.0	72.2	87.3
LN89-1179	58.5	57.8	74.1	75.0
LN89-3615	61.6	63.2	81.4	71.4
LN90-3216	60.7	58.3	76.3	73.9
LN90-4129	57.1	63.0	71.6	73.6
LS92-1800	52.4	55.4	62.7	68.0
S91-5371-17	43.8	41.0	51.0	58.6
S91-5371-19	42.8	44.5	54.3	59.5
C.V. (%)	5.6	9.9	7.1	9.1
L.S.D. (5%)	5.2	9.4	8.2	11.1
Row Sp. (In.)	30	15	7	24
Rows/Plot	4	6	8	4
Reps	3	3	3	3

UNIFORM TEST IV, 1994

YIELD RANK

Strain	Yield Rank	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	12	25	23	3	14	11	4	12
Flyer (E)	18	13	12	22	17	2	13	13
KS4694 (L)	17	9	10	21	8	23	11	22
Ripley (dtl)	22	24	5	23	6	12	2	23
Spencer (IV)	13	2	5	9	22	3	22	18
HC89-314 (dtl)	23	21	15	19	11	22	7	16
HC89-2165	4	7	14	7	12	7	20	3
HC89-2170	3	1	17	6	13	17	18	4
HM9196	13	15	11	14	15	8	15	19
HN9197	11	10	3	25	16	10	10	16
HS91-4825	8	4	16	16	4	20	17	6
HS91-4836	21	12	18	24	20	14	6	15
K1213	19	16	21	15	9	16	25	11
K1231	4	14	9	17	18	15	9	20
K1262	15	19	7	11	19	19	23	7
Ky88-5037	16	18	22	10	10	24	8	10
Ky90-1208	1	11	4	12	2	6	24	5
Ky90-2713	7	5	13	4	20	9	19	2
LN89-1179	9	17	1	8	7	17	14	14
LN89-3615	2	7	2	18	3	5	15	9
LN90-3216	6	6	20	13	4	1	21	1
LN90-4129	9	20	8	20	1	4	5	8
LS92-1800	20	8	18	5	24	12	11	21
S91-5371-17	25	23	25	2	25	25	1	25
S91-5371-19	24	22	24	1	23	21	3	23

UNIFORM TEST IV, 1994

YIELD RANK

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	1	20	13	18	6	7	16	11
Flyer (E)	23	12	21	7	3	15	23	12
KS4694 (L)	10	9	7	10	1	6	22	5
Ripley (dtl)	19	16	23	14	23	22	19	25
Spencer (IV)	18	22	5	16	12	17	8	9
HC89-314 (dtl)	25	18	14	23	22	25	24	23
HC89-2165	8	6	30	13	16	2	7	22
HC89-2170	20	3	15	10	19	13	15	2
HM9196	21	5	3	4	21	12	10	19
HN9197	6	11	22	5	5	4	13	21
HS91-4825	17	2	6	12	14	5	4	7
HS91-4836	11	7	11	24	20	18	25	10
K1213	24	19	2	19	9	19	11	8
K1231	7	13	4	8	2	1	2	1
K1262	22	4	16	15	18	14	9	2
Ky88-5037	14	21	9	2	16	11	12	6
Ky90-1208	5	1	10	3	12	20	5	15
Ky90-2713	13	24	7	20	6	15	17	13
LN89-1179	3	14	1	6	24	10	20	14
LN89-3615	12	9	19	8	8	9	3	16
LN90-3216	9	15	17	1	25	3	6	17
LN90-4129	15	8	12	16	11	8	21	4
LS92-1800	2	25	18	21	10	21	1	20
S91-5371-17	16	17	24	21	15	24	14	24
S91-5371-19	4	23	25	25	4	23	18	18

UNIFORM TEST IV, 1994

YIELD RANK

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	21	23	19	8
Flyer (E)	20	21	15	18
KS4694 (L)	14	19	21	17
Ripley (dtl)	16	22	23	25
Spencer (IV)	19	2	4	5
HC89-314 (dtl)	17	17	20	22
HC89-2165	3	8	17	4
HC89-2170	5	1	13	2
HM9196	17	6	5	9
HN9197	12	5	3	11
HS91-4825	2	16	11	15
HS91-4836	23	12	10	20
K1213	7	13	12	13
K1231	11	19	6	3
K1262	8	7	9	7
Ky88-5037	14	9	18	16
Ky90-1208	9	10	6	6
Ky90-2713	1	11	13	1
LN89-1179	10	15	6	10
LN89-3615	4	3	1	18
LN90-3216	6	14	2	12
LN90-4129	13	4	16	13
LS92-1800	22	18	22	21
S91-5371-17	24	25	25	24
S91-5371-19	25	24	24	23

UNIFORM TEST IV, 1994

MATURITY (date)

Strain	Mean 16 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	2.6	-1	0	5	5	5	5	1
Flyer (E)	-4.9	-6	-5	-4	0	-5	-2	-5
KS4694 (L)	6.4	3	5	9	9	7	8	5
Ripley (dt1)	-2.6	-6	-1	-2	1	0	-2	-2
Spencer (IV)	09/24	09/23	09/25	09/21	09/12	09/28	09/16	10/05
HC89-314 (dt1)	-3.2	-6	-1	-5	1	-3	1	-2
HC89-2165	-0.3	-6	0	6	1	-3	1	2
HC89-2170	0.8	-2	1	7	3	0	2	3
HM9196	-4.4	-6	-4	-3	-1	-5	-1	-6
HN9197	-3.8	-4	-3	-3	0	-3	-1	-5
HS91-4825	-2.8	-4	-5	-2	0	-3	0	-1
HS91-4836	-2.3	-4	-4	-2	1	-1	0	0
K1213	-0.3	-1	-2	1	1	2	0	0
K1231	-1.2	-3	-2	1	1	1	1	-2
K1262	2.1	0	0	4	3	2	3	0
Ky88-5037	5.2	3	5	10	8	5	8	5
Ky90-1208	1.5	0	2	4	4	1	4	1
Ky90-2713	4.1	2	5	7	4	5	4	4
LN89-1179	-1.3	-5	1	0	0	2	0	-4
LN89-3615	1.5	-3	4	3	3	2	3	1
LN90-3216	-2.8	-3	-5	0	0	-1	-1	-1
LN90-4129	-0.6	1	-1	0	3	-3	4	3
LS92-1800	1.6	-1	1	4	3	3	4	2
S91-5371-17	4.2	1	2	9	6	3	7	0
S91-5371-19	3.1	-	1	9	5	2	4	0
Date Planted	05/19	06/02	05/25	05/24	05/13	05/18	05/18	05/20
Days to Mature	128.4	113	123	120	122	133	121	138

UNIFORM TEST IV, 1994

MATURITY (date)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	1	-1			1	3	4	2
Flyer (E)	-13	-4			-7	-5	-2	-5
KS4694 (L)	1	2			14	4	5	5
Ripley (dtl)	-4	-3			1	-7	0	-5
Spencer (IV)	10/01	10/03			09/25	10/02	09/20	09/11
HC89-314 (dtl)	-11	-1			-6	-3	1	-2
HC89-2165	-11	-1			-3	-3	1	-2
HC89-2170	-12	-1			-2	-2	3	-2
HM9196	-11	-2			-8	-5	-3	-3
HN9197	-13	-2			-7	-4	-1	-3
HS91-4825	-11	-1			-3	-6	-2	-1
HS91-4836	-5	-1			-7	-4	-2	-5
K1213	-6	-1			1	-4	1	0
K1231	-6	0			0	-2	0	0
K1262	0	-1			4	2	3	2
Ky88-5037	-1	2			1	4	5	6
Ky90-1208	-8	0			1	1	2	1
Ky90-2713	1	1			8	2	4	3
LN89-1179	-9	-1			-3	0	1	0
LN89-3615	-1	0			1	0	0	5
LN90-3216	-13	-3			-8	-2	-1	-3
LN90-4129	-10	-2			-2	0	-1	0
LS92-1800	-6	-1			0	2	6	3
S91-5371-17	-3	0			12	2	6	4
S91-5371-19	1	-1			8	2	5	2
Date Planted	05/19	05/24			05/13	06/02	05/11	05/09
Days to Mature	135	132			135	122	132	125

UNIFORM TEST IV, 1994

MATURITY (date)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210		2	4	6
Flyer (E)		-5	-7	-3
KS4694 (L)		6	7	12
Ripley (dtl)		-4	-3	-5
Spencer (IV)		09/25	09/26	10/03
HC89-314 (dtl)		-5	-6	-3
HC89-2165		2	6	6
HC89-2170		4	5	6
HM9196		-4	-8	0
HN9197		-3	-6	-3
HS91-4825		-2	-6	3
HS91-4836		-2	-4	3
K1213		0	-3	6
K1231		-2	-6	0
K1262		2	4	6
Ky88-5037		5	8	9
Ky90-1208		0	2	9
Ky90-2713		2	4	9
LN89-1179		-2	-4	3
LN89-3615		0	0	6
LN90-3216		-2	-5	3
LN90-4129		-2	-6	6
LS92-1800		2	-2	6
S91-5371-17		4	5	9
S91-5371-19		2	4	3
Date Planted		05/16	05/10	05/24
Days to Mature		132	139	132

UNIFORM TEST IV, 1994

LODGING (score)

Strain	Mean 19 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	2.4	2.0	1.5	1.8	4.0	1.0	2.2	3.0
Flyer (E)	1.5	2.0	1.0	1.0	2.3	1.0	1.0	3.0
KS4694 (L)	1.7	2.0	1.0	1.0	2.0	1.0	1.2	2.3
Ripley (dtl)	1.2	1.0	1.0	1.0	1.7	1.0	1.0	1.2
Spencer (IV)	1.5	1.0	1.0	1.0	2.0	1.0	1.0	2.0
HC89-314 (dtl)	1.1	1.0	1.0	1.0	1.2	1.0	1.0	1.0
HC89-2165	2.1	2.0	1.3	1.0	3.7	1.0	1.7	2.3
HC89-2170	2.0	3.0	1.3	1.0	3.5	1.0	1.5	2.3
HM9196	1.5	1.0	1.0	1.0	2.5	1.0	1.0	3.2
HN9197	1.4	1.0	1.0	1.0	2.0	1.0	1.1	2.7
HS91-4825	1.5	2.0	1.0	1.0	2.3	1.0	1.2	1.7
HS91-4836	1.6	2.0	1.0	1.0	2.3	1.0	1.4	2.2
K1213	1.9	2.0	1.2	1.0	2.7	1.0	1.7	3.3
K1231	1.8	1.0	1.2	1.0	3.5	1.0	1.4	3.2
K1262	1.8	1.0	1.0	1.0	2.5	1.0	2.8	3.0
Ky88-5037	2.2	2.0	1.7	1.0	2.7	1.0	2.4	3.0
Ky90-1208	2.1	1.0	1.5	1.3	3.0	1.0	1.8	2.8
Ky90-2713	2.1	2.0	1.3	1.0	2.7	1.0	2.0	3.2
LN89-1179	1.5	1.0	1.0	1.0	2.3	1.0	1.5	2.5
LN89-3615	1.7	2.0	1.2	1.0	2.5	1.0	1.3	2.8
LN90-3216	1.4	1.0	1.0	1.0	1.8	1.0	1.0	1.7
LN90-4129	1.9	2.0	1.0	1.0	3.2	1.0	2.4	2.7
LS92-1800	1.8	1.0	1.2	1.0	3.5	1.0	1.3	2.0
S91-5371-17	3.4	2.0	3.2	3.0	4.7	1.0	4.1	4.0
S91-5371-19	3.4	---	3.0	3.0	4.5	1.0	4.6	4.2

UNIFORM TEST IV, 1994

LODGING (score)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	1.5	2.0	2.3	2.3	2.3	3.3	2.5	1.0
Flyer (E)	1.0	1.1	1.0	2.0	1.7	1.8	1.8	1.0
KS4694 (L)	1.0	2.0	1.5	2.0	1.5	2.0	2.2	1.0
Ripley (dtl)	1.0	1.0	1.2	1.1	1.7	1.0	1.0	1.0
Spencer (IV)	1.0	1.7	1.0	1.9	1.3	2.0	2.5	1.0
HC89-314 (dtl)	1.0	1.0	1.1	1.0	1.5	1.0	1.0	1.0
HC89-2165	1.2	2.0	2.2	2.0	2.0	3.0	2.8	1.0
HC89-2170	1.0	1.9	2.1	1.8	1.7	2.7	2.3	1.0
HM9196	1.0	1.3	1.3	2.1	1.7	1.7	1.5	1.0
HN9197	1.0	1.1	1.0	1.9	1.7	1.5	1.8	1.0
HS91-4825	1.0	1.6	1.1	1.7	1.5	2.0	1.3	1.0
HS91-4836	1.0	1.8	1.2	2.1	1.7	2.2	1.5	1.0
K1213	1.0	1.9	1.0	2.0	2.0	2.2	3.0	1.0
K1231	1.2	1.4	1.6	2.1	1.7	2.2	2.8	1.0
K1262	1.0	1.5	1.3	2.0	1.3	2.0	2.3	1.0
Ky88-5037	1.7	1.9	1.9	2.0	1.8	3.0	2.8	1.0
Ky90-1208	1.3	2.0	1.9	2.0	2.0	2.8	3.0	1.0
Ky90-2713	1.0	2.0	2.1	2.6	1.7	2.7	3.0	1.0
LN89-1179	1.0	1.0	1.1	2.1	1.5	1.8	2.5	1.0
LN89-3615	1.0	1.9	1.3	1.9	1.5	2.5	3.0	1.0
LN90-3216	1.0	1.0	1.1	2.1	1.5	2.2	2.2	1.0
LN90-4129	1.0	2.1	1.7	2.5	2.0	1.8	2.8	1.0
LS92-1800	1.3	1.9	1.6	2.0	1.7	2.3	3.0	1.0
S91-5371-17	2.3	3.4	2.9	3.7	2.5	3.3	4.2	2.0
S91-5371-19	2.7	3.2	2.9	3.3	3.2	3.2	4.2	2.0

UNIFORM TEST IV, 1994

LODGING (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	4.3	2.8	2.7	3.0
Flyer (E)	1.3	1.4	1.7	1.3
KS4694 (L)	1.7	1.7	1.3	3.0
Ripley (dt1)	1.3	1.8	1.0	1.0
Spencer (IV)	2.7	1.6	1.5	1.7
HC89-314 (dt1)	1.0	1.2	1.2	1.0
HC89-2165	3.0	2.2	2.0	3.0
HC89-2170	2.3	2.1	1.8	3.0
HM9196	1.0	1.5	1.7	1.7
HN9197	1.0	1.2	1.8	1.0
HS91-4825	1.0	1.9	1.5	2.3
HS91-4836	2.7	1.6	1.3	2.0
K1213	3.0	1.9	1.5	2.3
K1231	2.7	1.9	1.7	2.0
K1262	1.7	2.3	1.8	3.0
Ky88-5037	3.3	2.8	2.2	3.7
Ky90-1208	3.7	2.8	1.7	3.0
Ky90-2713	4.3	2.1	1.7	3.0
LN89-1179	1.3	1.9	1.2	2.3
LN89-3615	1.3	1.7	2.0	2.3
LN90-3216	1.0	1.2	1.7	1.3
LN90-4129	1.7	2.0	1.3	2.0
LS92-1800	3.7	1.9	1.2	2.0
S91-5371-17	5.0	4.3	4.0	4.3
S91-5371-19	5.0	3.9	2.5	4.0

UNIFORM TEST IV, 1994

PLANT HEIGHT (inches)

Strain	Mean 19 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	42	27	46	41	43	44	47	49
Flyer (E)	34	22	40	28	37	35	39	37
KS4694 (L)	37	29	41	28	41	39	41	44
Ripley (dtl)	22	17	22	19	24	26	23	28
Spencer (IV)	38	27	39	30	41	39	42	43
HC89-314 (dtl)	22	17	22	20	20	24	23	27
HC89-2165	41	28	47	42	44	45	45	47
HC89-2170	40	35	45	37	41	41	41	46
HM9196	33	22	37	28	35	35	37	35
HN9197	33	23	37	27	34	35	40	37
HS91-4825	34	23	35	28	37	34	36	38
HS91-4836	36	25	39	30	35	37	42	42
K1213	38	28	43	30	39	38	41	45
K1231	35	27	38	28	37	33	37	37
K1262	39	25	42	33	40	38	46	45
Ky88-5037	42	28	48	38	40	44	49	47
Ky90-1208	38	24	39	35	37	38	45	45
Ky90-2713	45	33	49	45	45	42	52	53
LN89-1179	35	22	39	31	38	34	38	42
LN89-3615	34	24	37	33	36	33	38	37
LN90-3216	36	27	38	30	33	36	38	41
LN90-4129	33	23	36	26	34	34	37	39
LS92-1800	43	30	47	39	47	42	52	48
S91-5371-17	40	29	47	37	41	39	44	42
S91-5371-19	42	--	49	40	45	41	49	45

UNIFORM TEST IV, 1994

PLANT HEIGHT (inches)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	40	42	45	53	36	44	36	39
Flyer (E)	34	42	34	43	28	34	34	31
KS4694 (L)	39	43	36	47	32	36	34	30
Ripley (dtl)	28	25	28	25	21	15	18	15
Spencer (IV)	38	44	37	50	31	34	40	36
HC89-314 (dtl)	22	25	28	21	22	13	17	22
HC89-2165	39	46	43	51	33	41	38	32
HC89-2170	39	46	41	50	32	38	36	37
HM9196	35	42	35	41	28	32	31	29
HN9197	30	41	31	42	29	31	34	29
HS91-4825	34	41	34	45	28	34	32	26
HS91-4836	38	44	37	45	31	33	36	34
K1213	33	45	37	49	36	34	35	38
K1231	35	44	34	45	31	35	34	37
K1262	36	49	37	54	29	37	38	40
Ky88-5037	39	48	44	53	35	43	42	40
Ky90-1208	39	43	37	47	32	35	37	34
Ky90-2713	41	50	43	55	37	43	39	42
LN89-1179	38	42	36	47	24	34	34	29
LN89-3615	35	43	31	45	30	34	36	21
LN90-3216	35	45	36	48	30	34	34	34
LN90-4129	34	41	33	39	30	34	31	30
LS92-1800	43	46	40	54	37	41	42	36
S91-5371-17	33	45	41	49	35	36	37	43
S91-5371-19	33	46	43	55	37	40	39	44

UNIFORM TEST IV, 1994

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	45	42	40	39
Flyer (E)	31	35	36	34
KS4694 (L)	37	40	38	37
Ripley (dtl)	24	29	20	20
Spencer (IV)	32	41	39	37
HC89-314 (dtl)	21	29	23	17
HC89-2165	42	44	39	42
HC89-2170	34	42	39	40
HM9196	31	35	34	34
HN9197	32	35	34	32
HS91-4825	33	37	35	34
HS91-4836	36	37	35	37
K1213	35	39	36	37
K1231	33	38	34	35
K1262	35	44	39	39
Ky88-5037	44	40	41	42
Ky90-1208	40	42	35	34
Ky90-2713	45	47	43	47
LN89-1179	34	39	33	32
LN89-3615	33	39	34	35
LN90-3216	31	35	37	34
LN90-4129	32	34	31	33
LS92-1800	44	43	39	41
S91-5371-17	38	44	37	36
S91-5371-19	35	43	37	41

UNIFORM TEST IV, 1994

SEED QUALITY (score)

Strain	Mean 18 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	1.6	1.0	1.0	1.5	2.3	1.7	2.0	1.0
Flyer (E)	1.5	1.0	1.0	1.5	2.3	1.5	1.0	1.0
KS4694 (L)	1.5	1.0	1.0	1.5	2.0	1.7	2.0	1.0
Ripley (dtl)	1.2	1.0	1.0	1.5	2.2	1.5	1.0	1.0
Spencer (IV)	1.5	1.0	1.0	1.5	2.5	1.7	1.0	1.0
HC89-314 (dtl)	1.5	1.0	1.0	1.5	2.7	1.7	3.0	1.0
HC89-2165	1.4	1.0	1.0	1.5	2.0	1.5	3.0	1.0
HC89-2170	1.3	1.0	1.0	1.5	2.2	1.7	1.0	1.0
HM9196	1.5	1.0	1.0	1.5	2.2	1.5	1.0	1.0
HN9197	1.3	1.0	1.0	1.5	2.3	1.7	2.0	1.0
HS91-4825	1.6	1.0	2.0	1.5	2.3	2.0	1.0	1.0
HS91-4836	1.7	1.0	2.0	1.5	2.5	1.8	1.0	1.0
K1213	1.5	1.0	1.0	1.5	2.3	1.7	2.0	1.0
K1231	1.5	1.0	2.0	1.5	2.5	1.8	1.0	1.0
K1262	1.5	1.0	1.0	1.5	2.2	1.5	1.0	1.0
Ky88-5037	1.5	1.0	1.0	1.5	2.5	1.8	2.0	1.0
Ky90-1208	1.6	1.0	2.0	1.7	2.5	1.5	1.0	1.0
Ky90-2713	1.8	1.0	2.0	1.5	2.5	2.2	3.0	1.0
LN89-1179	1.6	1.0	2.0	1.5	2.3	1.8	1.0	1.0
LN89-3615	1.5	1.0	1.0	1.5	2.2	2.2	1.0	1.0
LN90-3216	1.5	1.0	1.0	1.5	2.0	1.7	2.0	1.0
LN90-4129	1.7	1.0	2.0	1.5	2.8	1.7	1.0	1.0
LS92-1800	1.4	1.0	1.0	1.5	2.5	1.5	2.0	1.0
S91-5371-17	1.9	1.0	3.0	1.7	3.2	1.8	3.0	1.0
S91-5371-19	1.7	1.0	2.0	1.5	2.7	1.7	2.0	1.0

UNIFORM TEST IV, 1994

SEED QUALITY (score)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	2.0	3.0		2.0	1.0	1.7	2.0	1.5
Flyer (E)	2.0	2.0		2.0	1.0	1.5	2.0	1.5
KS4694 (L)	1.5	2.0		2.0	2.0	1.0	2.0	1.0
Ripley (dtl)	1.0	2.0		2.0	1.0	1.0	1.0	1.0
Spencer (IV)	2.0	2.0		2.0	1.0	1.2	2.0	2.0
HC89-314 (dtl)	1.5	2.0		2.0	1.0	1.0	1.0	1.5
HC89-2165	1.0	2.0		2.0	1.0	1.3	1.0	1.5
HC89-2170	1.0	2.0		2.0	1.0	1.0	1.0	1.5
HM9196	1.5	2.0		2.0	2.0	1.0	2.0	1.5
HN9197	1.0	2.0		1.0	1.0	1.0	2.0	1.0
HS91-4825	1.5	3.0		2.0	1.0	1.0	2.0	1.0
HS91-4836	2.0	3.0		2.0	1.0	1.0	3.0	2.0
K1213	1.5	2.0		2.0	1.0	1.0	2.0	1.5
K1231	1.5	2.0		2.0	1.0	1.0	2.0	1.5
K1262	1.5	3.0		2.0	1.0	1.0	2.0	1.5
Ky88-5037	1.0	3.0		3.0	1.0	1.0	1.0	1.0
Ky90-1208	1.5	2.0		2.0	2.0	1.0	2.0	1.5
Ky90-2713	2.0	2.0		3.0	2.0	1.0	3.0	1.5
LN89-1179	1.5	3.0		3.0	1.0	1.0	2.0	1.0
LN89-3615	1.5	2.0		3.0	1.0	1.0	2.0	1.0
LN90-3216	1.0	2.0		3.0	1.0	1.2	2.0	1.5
LN90-4129	1.5	3.0		3.0	1.0	1.0	3.0	1.5
LS92-1800	1.0	2.0		2.0	1.0	1.0	1.0	1.0
S91-5371-17	1.5	3.0		3.0	1.0	1.0	2.0	1.5
S91-5371-19	1.5	3.0		2.0	1.0	1.0	2.0	1.5

UNIFORM TEST IV, 1994

SEED QUALITY (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	1.0	1.0	1.5	1.0
Flyer (E)	1.0	1.3	1.0	2.0
KS4694 (L)	1.0	1.0	1.0	2.0
Ripley (dtl)	1.0	1.0	1.0	1.0
Spencer (IV)	1.0	1.0	1.5	2.0
HC89-314 (dtl)	1.0	1.0	1.0	2.0
HC89-2165	1.0	1.0	1.0	2.0
HC89-2170	1.0	1.0	1.0	2.0
HM9196	1.0	1.0	1.0	2.0
HN9197	1.0	1.0	1.0	1.0
HS91-4825	1.0	1.3	2.0	2.0
HS91-4836	1.0	1.0	1.5	2.0
K1213	1.0	1.3	1.0	2.0
K1231	1.0	1.0	1.0	2.0
K1262	1.0	1.0	1.0	2.0
Ky88-5037	1.0	1.3	1.0	2.0
Ky90-1208	1.3	1.0	1.5	2.0
Ky90-2713	1.0	1.0	1.5	2.0
LN89-1179	1.0	1.0	1.5	2.0
LN89-3615	1.0	1.0	1.0	2.0
LN90-3216	1.0	1.0	1.0	2.0
LN90-4129	1.0	1.0	1.0	2.0
LS92-1800	1.0	1.0	1.0	2.0
S91-5371-17	1.7	1.0	1.5	3.0
S91-5371-19	1.7	2.0	1.5	2.0

UNIFORM TEST IV, 1994

SEED SIZE (g/100)

Strain	Mean 17 Tests	George-town DE	Belle-ville IL	Newton IL	Ridg-way IL	Urbana IL	Villa Ridge IL	Lafay-ette IN
Delsoy 4210	18.0		16.2	16.6	16.5	20.4	18.2	19.3
Flyer (E)	14.1		13.7	12.1	12.8	15.2	13.4	15.8
KS4694 (L)	17.0		16.5	15.3	16.7	16.5	16.7	17.1
Ripley (dtl)	13.4		13.5	11.0	13.8	13.5	13.0	12.3
Spencer (IV)	18.3		17.7	17.0	14.3	20.3	16.5	19.6
HC89-314 (dtl)	17.4		18.0	13.7	17.7	17.8	19.1	17.4
HC89-2165	12.9		11.9	11.3	11.9	13.3	11.9	14.2
HC89-2170	13.9		12.5	12.1	13.0	14.3	13.5	15.3
HM9196	14.7		13.9	12.0	12.7	15.7	14.4	16.3
HN9197	15.4		14.8	11.9	13.4	16.0	14.8	17.4
HS91-4825	16.9		16.5	14.9	15.3	17.9	15.6	19.4
HS91-4836	17.9		16.3	16.2	15.6	20.6	17.3	20.1
K1213	15.0		14.8	13.4	12.0	16.8	13.9	17.6
K1231	17.2		16.5	14.7	14.7	18.2	16.5	19.8
K1262	17.1		15.9	14.5	13.5	18.2	16.2	20.6
Ky88-5037	15.1		13.6	13.4	14.7	15.3	14.6	16.6
Ky90-1208	15.2		14.9	14.4	13.9	16.1	13.2	16.2
Ky90-2713	18.4		17.9	16.7	15.6	19.3	16.8	20.7
LN89-1179	15.4		14.8	13.4	14.0	17.0	14.4	17.1
LN89-3615	14.8		14.2	12.9	13.0	15.4	13.8	15.1
LN90-3216	15.5		14.9	13.1	14.2	17.1	14.8	17.5
LN90-4129	20.8		20.3	18.2	19.0	21.1	21.0	22.1
LS92-1800	15.2		14.1	13.9	13.2	16.5	14.3	15.8
S91-5371-17	18.9		17.5	17.6	16.2	20.2	20.6	18.0
S91-5371-19	17.8		16.6	17.3	16.0	18.3	18.9	19.1

UNIFORM TEST IV, 1994

SEED SIZE (g/100)

Strain	Vince-nnes IN	Man-hattan KS	Ottawa KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portage ville MO
Delsoy 4210	20.3	18.6		18.7	20.4	19.5	18.0	13.3
Flyer (E)	14.5	15.1		14.0	15.2	15.1	13.0	11.0
KS4694 (L)	18.7	18.6		16.5	19.9	17.7	19.0	13.4
Ripley (dtl)	15.5	13.1		13.5	15.2	14.8	16.0	12.5
Spencer (IV)	20.6	18.0		17.2	21.1	18.4	18.0	14.7
HC89-314 (dtl)	16.7	18.6		18.8	18.2	16.8	20.0	15.5
HC89-2165	14.9	13.9		12.8	14.9	13.3	13.0	10.4
HC89-2170	15.8	14.6		14.2	16.3	14.1	14.0	10.8
HM9196	14.7	16.4		14.7	16.4	15.3	13.0	11.4
HN9197	16.1	16.8		16.0	18.3	16.1	14.0	11.9
HS91-4825	18.8	18.4		17.2	18.3	17.0	17.0	13.9
HS91-4836	18.0	18.5		16.4	20.5	18.7	16.0	14.6
K1213	17.1	15.8		14.7	17.4	14.1	16.0	11.1
K1231	18.2	16.8		16.5	18.6	18.7	16.0	14.3
K1262	21.2	17.4		18.1	19.0	17.6	15.0	13.1
Ky88-5037	17.1	14.9		15.0	16.8	15.4	15.0	11.8
Ky90-1208	17.1	16.7		15.2	17.8	15.1	16.0	13.1
Ky90-2713	20.6	18.7		17.5	19.8	18.8	19.0	13.6
LN89-1179	16.0	15.4		14.9	18.0	16.0	14.0	13.2
LN89-3615	16.5	15.8		14.6	18.0	15.3	15.0	12.4
LN90-3216	16.5	16.7		15.8	16.6	16.4	15.0	11.8
LN90-4129	20.9	21.9		20.3	22.0	21.4	21.0	17.3
LS92-1800	18.1	14.5		15.1	18.2	15.9	15.0	12.1
S91-5371-17	21.6	20.6		20.6	18.9	20.1	21.0	14.3
S91-5371-19	20.8	18.9		18.4	19.9	19.3	16.0	13.3

UNIFORM TEST IV, 1994

SEED SIZE (g/100)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA
Delsoy 4210	18.3	16.5	17.2	18.4
Flyer (E)	15.3	14.9	14.0	15.4
KS4694 (L)	18.0	16.0	15.2	17.6
Ripley (dtl)	13.3	11.5	12.1	14.0
Spencer (IV)	18.7	19.9	19.5	19.5
HC89-314 (dtl)	17.0	16.5	16.4	17.8
HC89-2165	13.7	12.6	11.9	14.2
HC89-2170	14.0	13.5	13.1	15.8
HM9196	15.3	15.1	15.4	16.9
HN9197	16.3	15.7	15.7	16.2
HS91-4825	17.7	16.5	16.6	15.6
HS91-4836	18.7	19.3	18.3	20.0
K1213	15.7	14.3	14.1	16.0
K1231	18.7	18.2	16.8	19.8
K1262	17.3	18.0	17.4	18.3
Ky88-5037	16.0	14.9	14.1	17.1
Ky90-1208	15.0	15.0	13.4	16.1
Ky90-2713	19.0	18.9	19.3	21.2
LN89-1179	16.7	15.8	15.1	15.7
LN89-3615	16.0	14.4	14.1	15.4
LN90-3216	15.7	15.5	15.3	16.7
LN90-4129	22.3	21.7	19.7	23.2
LS92-1800	16.3	14.3	14.8	15.8
S91-5371-17	17.3	17.6	17.7	21.0
S91-5371-19	16.0	16.7	17.2	19.2

UNIFORM TEST IV, 1994

PROTEIN (%)

Strain	Mean 3 Tests	Urbana IL	Vincennes IN	Portageville MO
Delsoy 4210	41.7	41.1	43.6	40.4
Flyer (E)	41.4	40.7	42.4	41.0
KS4694 (L)	40.0	40.5	41.3	38.1
Ripley (dtl)	40.0	39.2	40.2	40.7
Spencer (IV)	40.8	41.0	42.8	38.6
HC89-314 (dtl)	42.6	42.0	43.6	42.1
HC89-2165	40.4	41.5	41.5	38.3
HC89-2170	42.0	42.7	43.1	40.2
HM9196	40.8	40.2	42.2	40.0
HN9197	42.1	42.8	43.2	40.3
HS91-4825	40.4	40.2	41.6	39.4
HS91-4836	42.5	41.4	43.8	42.2
K1213	40.9	41.7	41.7	39.4
K1231	39.9	40.2	41.2	38.3
K1262	41.7	41.3	43.3	40.6
Ky88-5037	40.5	41.5	42.2	37.8
Ky90-1208	40.5	40.1	41.4	40.1
Ky90-2713	39.9	40.3	40.7	38.8
LN89-1179	40.3	40.2	41.6	39.2
LN89-3615	40.7	41.4	41.7	38.9
LN90-3216	41.4	41.6	42.0	40.5
LN90-4129	41.6	41.3	42.5	41.1
LS92-1800	38.8	39.6	40.1	36.7
S91-5371-17	41.3	41.3	42.7	39.8
S91-5371-19	41.3	41.4	42.4	40.2

UNIFORM TEST IV, 1994

OIL (%)

Strain	Mean 3 Tests	Urbana IL	Vincennes IN	Portageville MO
Delsoy 4210	20.8	20.9	20.5	21.1
Flyer (E)	20.9	21.6	21.0	20.2
KS4694 (L)	20.7	20.8	20.6	20.7
Ripley (dtl)	20.7	20.7	20.8	20.6
Spencer (IV)	21.3	21.5	21.0	21.3
HC89-314 (dtl)	20.8	20.8	20.5	21.0
HC89-2165	21.2	21.0	21.2	21.5
HC89-2170	21.0	20.9	21.0	21.2
HM9196	21.0	21.4	20.8	20.9
HN9197	21.1	21.1	21.0	21.1
HS91-4825	20.1	20.1	20.2	20.0
HS91-4836	20.6	21.0	20.1	20.7
K1213	20.7	20.7	20.4	20.9
K1231	20.9	20.8	21.0	21.0
K1262	20.9	20.6	21.0	21.0
Ky88-5037	20.7	20.3	21.1	20.7
Ky90-1208	21.6	21.6	21.6	21.7
Ky90-2713	20.9	21.0	20.9	20.8
LN89-1179	20.7	20.4	20.7	21.0
LN89-3615	21.5	21.3	21.4	21.7
LN90-3216	21.3	20.7	21.4	21.7
LN90-4129	21.1	21.0	20.8	21.4
LS92-1800	20.9	20.2	21.2	21.4
S91-5371-17	20.8	20.5	21.1	20.9
S91-5371-19	20.8	20.7	20.9	20.8

PRELIMINARY TEST IVA, 1994

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
KS4694 (L)	Sherman x Toano	F5	
Spencer (IV)	A75-305022 x Century	F5	
C1892	Resnik x CX1022-90	F5	
C1893	Burlison x A86-301024	F5	
C1894	Burlison x A86-301024	F5	
C1895	A87-296011 x C1762	F5	
C1897	A87-296011 x C1762	F5	
C1898	C1742 x C1762	F5	
C1899	C1762 x HC85-6724	F5	
HC86-3428	L74D-634RE x Asgrow A3127	F5	Dt1
HC88-4332	HC80-1946 x Asgrow A3127	F5	Dt1
HC90-2353	HC80-1942 x Zane	F5	Dt1
HC90-2380	HC80-1942 x Zane	F5	Dt1
HC90-2586	Resnik x Gnome 85	F5	Dt1
HC90-2806	Hobbit 87 x Resnik	F5	Dt1
HC91-3586	Resnik x Essex	F5	Dt1
K1287	K1148 x Coker 393	F5	
K1288	P6123-27 x K1148	F5	
K1289	Sherman x K1148	F5	
K1290	Hamilton x K1148	F5	
K1291	K1126 x DeKalb Pfizer CX415	F5	
K1292	P6123-27 x Sherman	F5	
K1293	Asgrow A4595 x K1148	F5	
K1294	Hamilton x K1148	F5	
K1295	Asgrow A4595 x Hamilton	F5	
K1296	K1148 x Coker 393	F5	
LN91-1754	Asgrow A3733 x Resnik	F5	
LN91-2176	Asgrow A3733 x Harper 87	F5	
LN91-2883	Asgrow A3733 x Elgin 87	F5	
LN91-2914	Asgrow A3733 x Elgin 87	F5	
LN91-3120	Northrup King S27-10 x Elf BC	F5	

PRELIMINARY TEST IVA, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Custar Root Rot Race 25	PR Lafayette Race 7	PS Laf. a %
Flyer (E)	WTTIYBlI	1	3.2	R	8
KS4694 (L)	WGBrSYBfI	1	2.7	S	18
Spencer (IV)	WTBrDYBrI	1	4.0	S	9
C1892	PTTDYBlI	1	3.2	R	6
C1893	WTTDYBrI	2	2.6	R	5
C1894	PTTSYBlI	1	2.3	R	2
C1895	PTBrIYGrI	1	3.8	S	31
C1897	PTBrDYYI	1	3.5	S	8
C1898	WTBrSYBlI	2	2.8	R	20
C1899	PTTSYBlI	1	3.5	S	23
HC86-3428	WTTSYBlI	1	3.2	S	3
HC88-4332	PTTDYBlI	2	3.5	S	3
HC90-2353	WTBrDYBlI	2	2.7	S	13
HC90-2380	WGTDYBfI	1	2.8	S	12
HC90-2586	PTTSYBlI	1	3.4	S	24
HC90-2806	PTTIYBlI	1	3.5	R	12
HC91-3586	PTTDYBlI	1	3.5	R	1
K1287	PGTDYIbI	1	3.8	S	5
K1288	PTBrDYBlI	1	3.3	S	6
K1289	WGBRDYBfI	1	3.4	S	10
K1290	P+WGTSYIbI	1	3.6	S	9
K1291	WTTSYBlI	1	3.7	S	5
K1292	WTBrDYBrI	1	3.1	S	1
K1293	WGTDYBfI	1	2.3	S	60
K1294	PGBrSYBfI	2	3.2	S	29
K1295	WGTSYBfI	1	3.2	S	24
K1296	PGTDYIbI	1	3.6	S	1
LN91-1754	PTTDYBlI	1	3.4	R	4
LN91-2176	PTBrIYBlI	1	2.8	R	32
LN91-2883	PTBrIYBlI	1	3.1	R	22
LN91-2914	PTT+BrDYBlI	1	3.6	R	54
LN91-3120	PTTSYYI	1	3.8	R	7

PRELIMINARY TEST IVA, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 2 %	 Oil 2 %
Flyer (E)	54.5	14	-5.1	1.4	35	1.4	14.5	42.3	21.2
KS4694 (L)	58.2	2	7.1	1.6	39	1.3	17.7	41.9	20.6
Spencer (IV)	58.1	3	09/25	1.3	38	1.7	18.5	42.2	21.1
C1892	53.4	19	-6.6	1.6	35	1.4	16.7	41.3	21.1
C1893	56.1	7	-3.5	1.7	38	1.6	18.4	42.2	20.4
C1894	58.0	4	-2.1	1.6	37	1.8	19.9	42.9	20.9
C1895	57.3	6	-2.4	1.5	35	1.6	18.0	41.3	20.9
C1897	54.4	15	-5.9	1.5	34	1.8	18.8	41.4	20.8
C1898	55.0	12	1.5	2.1	39	1.9	16.2	40.7	21.2
C1899	55.8	9	-1.9	1.9	38	1.8	17.8	41.7	21.0
HC86-3428	50.9	30	-5.5	1.8	37	1.3	15.2	41.8	21.5
HC88-4332	47.6	32	-3.6	2.2	45	1.6	16.1	41.9	21.4
HC90-2353	51.1	29	-3.4	1.8	41	1.6	16.4	40.7	20.8
HC90-2380	53.3	21	1.4	1.9	42	2.0	19.2	42.1	20.9
HC90-2586	52.5	23	-2.6	1.9	43	1.4	14.2	42.1	20.8
HC90-2806	51.7	27	-4.5	1.8	38	1.3	15.2	42.3	21.2
HC91-3586	51.6	28	-7.0	1.6	35	1.7	14.2	42.2	20.7
K1287	58.0	4	3.0	1.4	35	1.6	17.5	41.8	21.0
K1288	58.5	1	3.9	2.2	40	1.7	17.3	42.2	20.9
K1289	55.7	10	4.4	2.7	39	1.5	14.3	41.6	20.7
K1290	55.5	11	0.0	1.6	35	1.6	15.6	42.0	21.1
K1291	52.3	26	3.3	2.0	41	1.3	14.6	41.6	20.8
K1292	52.5	23	-0.1	2.0	36	1.7	18.5	40.7	21.2
K1293	54.0	16	6.0	2.0	40	1.8	18.5	42.3	21.0
K1294	53.4	19	5.4	2.5	40	1.5	16.5	42.4	20.9
K1295	52.5	23	-1.5	2.3	38	1.6	17.4	42.2	21.4
K1296	54.9	13	2.6	1.5	37	1.4	15.0	41.1	21.2
LN91-1754	53.7	18	-4.0	1.6	35	1.3	16.2	41.6	21.2
LN91-2176	53.8	17	-2.6	1.4	37	1.8	18.2	41.0	20.6
LN91-2883	52.8	22	-4.3	1.5	35	1.5	16.6	41.4	21.1
LN91-2914	55.9	8	-5.4	1.4	33	1.8	17.4	41.7	21.5
LN91-3120	48.2	31	-10.0	2.0	34	1.9	17.6	41.6	20.6

130.3 Days After Planting

PRELIMINARY TEST IVA, 1994

YIELD (bu/a)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	54.5	58.5	51.9	38.4	67.8	35.8	61.8	38.5	65.7	72.1
KS4694 (L)	58.2	60.0	56.3	43.9	67.2	46.8	64.5	56.8	60.9	67.1
Spencer (IV)	58.1	56.0	61.4	43.5	65.0	34.7	62.3	57.3	68.7	73.6
C1892	53.4	57.1	55.6	35.7	67.3	27.1	57.2	44.1	65.8	70.8
C1893	56.1	58.1	60.3	51.6	64.6	36.0	54.5	42.0	64.1	73.3
C1894	58.0	60.0	60.1	45.2	67.6	35.5	61.0	40.5	72.2	79.6
C1895	57.3	64.4	60.6	39.3	68.1	32.1	61.6	44.7	64.3	80.3
C1897	54.4	63.2	54.6	36.4	67.7	31.6	59.0	42.8	63.4	71.1
C1898	55.0	63.0	55.5	47.2	67.7	36.2	59.2	35.9	60.1	70.3
C1899	55.8	59.4	61.3	35.9	69.8	34.3	61.9	35.5	68.3	75.8
HC86-3428	50.9	55.1	49.7	36.3	60.2	36.6	56.9	33.4	60.4	69.2
HC88-4332	47.6	51.4	46.0	31.5	55.6	33.1	51.9	35.2	58.9	64.8
HC90-2353	51.1	57.6	50.9	39.4	63.2	35.1	54.4	44.1	45.7	69.5
HC90-2380	53.3	55.6	58.2	32.9	62.8	37.0	52.2	----	62.0	65.5
HC90-2586	52.5	57.6	47.1	35.9	71.3	31.7	53.8	38.2	62.3	74.6
HC90-2806	51.7	51.5	59.2	34.4	61.3	31.6	52.8	39.7	63.7	70.9
HC91-3586	51.6	50.0	59.5	34.4	66.5	31.0	54.6	39.7	58.9	70.1
K1287	58.0	64.0	65.3	44.8	64.3	38.9	57.0	44.9	71.4	71.5
K1288	58.5	61.4	65.1	38.0	75.5	38.1	62.9	48.2	68.6	69.1
K1289	55.7	55.3	51.6	41.1	75.7	42.8	55.7	48.1	61.4	70.0
K1290	55.5	61.8	55.8	34.4	67.3	39.4	59.8	44.6	65.6	70.7
K1291	52.3	62.2	50.1	42.0	59.8	41.2	58.1	34.4	59.1	63.9
K1292	52.5	59.0	49.4	39.1	70.0	32.9	59.3	33.3	62.4	66.7
K1293	54.0	65.6	46.8	39.1	64.0	43.5	53.9	40.6	63.1	69.4
K1294	53.4	58.0	45.3	40.6	70.1	39.1	49.8	43.0	65.0	69.5
K1295	52.5	52.1	50.5	37.4	70.7	37.3	59.1	39.9	60.5	64.8
K1296	54.9	66.0	48.3	37.9	70.1	34.4	56.2	40.3	68.6	72.0
LN91-1754	53.7	59.0	47.0	32.4	71.9	31.8	56.8	36.7	68.5	78.8
LN91-2176	53.8	58.6	51.8	38.6	62.5	36.3	55.6	43.8	64.0	73.3
LN91-2883	52.8	61.9	44.6	40.0	55.8	30.6	59.7	44.9	66.0	71.9
LN91-2914	55.9	58.3	53.3	44.1	68.9	33.3	61.4	44.9	64.1	74.6
LN91-3120	48.2	43.1	51.6	30.8	66.0	24.8	53.9	41.2	64.0	58.1
C.V. (%)		7.2	12.7	17.2	5.4	9.3	5.7	13.8	7.6	4.7
L.S.D. (5%)		8.6	ns	13.6	7.3	4.3	6.7	11.4	9.7	6.8
Row Sp. (In.)		30	30	26	30	30	30	30	15	7
Rows/Plot		4	4	4	4	4	4	4	6	8
Reps		2	2	2	2	2	2	2	2	2

PRELIMINARY TEST IVA, 1994

YIELD RANK

Strain	Yield Rank	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	14	17	17	17	12	15	5	23	10	10
KS4694 (L)	2	11	11	6	18	1	1	2	25	26
Spencer (IV)	3	24	3	7	21	18	3	1	3	7
C1892	19	23	13	25	16	31	16	11	9	16
C1893	7	19	6	1	22	14	24	15	14	8
C1894	4	11	7	3	15	16	8	18	1	2
C1895	6	3	5	13	11	24	6	8	13	1
C1897	15	5	15	20	13	27	14	14	19	14
C1898	12	6	14	2	13	13	12	26	28	18
C1899	9	13	4	23	9	20	4	27	7	4
HC86-3428	30	27	24	22	29	11	18	30	27	24
HC88-4332	32	30	30	31	32	22	31	28	30	29
HC90-2353	29	21	21	12	25	17	25	10	32	21
HC90-2380	21	25	10	29	26	10	30	--	23	28
HC90-2586	23	21	27	23	4	26	28	24	22	5
HC90-2806	27	29	9	26	28	27	29	21	18	15
HC91-3586	28	31	8	26	19	29	23	22	30	19
K1287	4	4	1	4	23	7	17	5	2	13
K1288	1	10	2	18	2	8	2	3	4	25
K1289	10	26	19	9	1	3	21	4	24	20
K1290	11	9	12	26	16	5	9	9	11	17
K1291	26	7	23	8	30	4	15	29	29	28
K1292	23	14	25	14	8	23	11	31	21	27
K1293	16	2	29	14	24	2	26	17	20	23
K1294	19	20	31	10	6	6	32	13	12	21
K1295	23	28	22	20	5	9	13	20	26	29
K1296	13	1	26	19	6	19	20	19	4	11
LN91-1754	18	14	28	30	3	25	19	25	6	3
LN91-2176	17	16	18	16	27	12	22	12	16	8
LN91-2883	22	8	32	11	31	30	10	5	8	12
LN91-2914	8	18	16	5	10	21	7	5	14	5
LN91-3120	31	32	19	32	20	32	26	16	16	32

PRELIMINARY TEST IVA, 1994

MATURITY (date)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	-5.1	-3	-8	-9		-11	-3	-1	-5	-1
KS4694 (L)	7.1	8	6	3		8	8	6	6	12
Spencer (IV)	09/25	09/22	10/01	09/28		09/20	10/03	09/21	09/25	09/21
C1892	-6.6	-3	-7	-12		-12	-7	-7	-4	-1
C1893	-3.5	-4	-5	-5		-7	-1	-3	-3	0
C1894	-2.1	-3	-4	-2		-3	1	-4	-2	0
C1895	-2.4	3	0	-8		-11	-1	-2	-2	2
C1897	-5.9	-3	-7	-10		-11	-3	-4	-6	-3
C1898	1.5	3	0	0		-4	4	-1	2	8
C1899	-1.9	-1	0	-7		-6	-3	0	2	0
HC86-3428	-5.5	-3	-6	-12		-7	-2	-6	-6	-2
HC88-4332	-3.6	-1	-6	-8		-8	2	-5	-2	-1
HC90-2353	-3.4	0	-5	-8		-9	2	-3	-3	-1
HC90-2380	1.4	3	1	-2		-3	5	--	-1	7
HC90-2586	-2.6	-2	-7	-1		-7	-1	-1	-2	0
HC90-2806	-4.5	-2	-6	-7		-6	0	-7	-6	-2
HC91-3586	-7.0	-5	-6	-14		-8	-6	-7	-6	-4
K1287	3.0	5	2	4		-2	2	5	1	7
K1288	3.9	7	4	2		-2	3	2	4	11
K1289	4.4	6	4	4		7	1	2	1	10
K1290	0.0	1	2	-4		0	-1	1	-2	3
K1291	3.3	5	3	3		2	2	1	3	7
K1292	-0.1	1	-1	-2		-6	7	-1	0	1
K1293	6.0	8	3	4		6	7	2	6	12
K1294	5.4	6	2	3		6	6	4	4	12
K1295	-1.5	0	-1	-5		-3	1	-1	-1	-2
K1296	2.6	6	3	5		-2	-1	1	1	8
LN91-1754	-4.0	-3	-7	-9		-9	1	-2	-3	0
LN91-2176	-2.6	1	-3	-6		-8	3	-1	-5	-2
LN91-2883	-4.3	-1	-8	-15		-14	1	9	-5	-1
LN91-2914	-5.4	-1	-9	-15		-8	1	0	-8	-3
LN91-3120	-10.0	-8	-10	-15		-14	-8	-8	-10	-7
Date Pl.	05/17	05/25	05/18	05/19		05/11	06/02	05/11	05/16	05/10
Days to Mat.	130.3	120	136	132		132	123	133	132	134

PRELIMINARY TEST IVA, 1994

LODGING (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.4	1.0	1.1	1.0	1.0	1.8	2.8	1.3	1.3	1.3
KS4694 (L)	1.6	1.0	1.0	1.0	1.1	1.5	3.3	2.3	1.4	2.0
Spencer (IV)	1.3	1.0	1.0	1.0	1.0	1.0	2.5	1.8	1.2	1.3
C1892	1.6	1.0	1.0	1.0	1.3	1.3	3.0	1.8	1.4	3.0
C1893	1.7	1.0	1.0	1.0	2.1	1.3	3.0	2.3	1.2	2.0
C1894	1.6	1.0	1.0	1.0	1.2	1.3	2.8	2.0	1.5	2.3
C1895	1.5	1.0	1.0	1.0	1.4	1.0	3.0	1.5	1.3	2.0
C1897	1.5	1.0	1.0	1.0	1.0	1.3	2.8	2.0	1.2	2.5
C1898	2.1	1.5	1.0	1.8	2.0	1.8	3.3	2.3	2.2	2.8
C1899	1.9	1.0	1.0	1.3	2.3	1.5	2.5	2.0	2.8	2.5
HC86-3428	1.8	1.0	1.0	1.0	2.1	1.5	3.3	2.3	1.5	2.3
HC88-4332	2.2	1.5	1.0	1.3	2.3	1.8	3.8	3.0	1.8	3.0
HC90-2353	1.8	1.0	1.0	1.0	2.0	1.3	3.3	2.8	1.5	2.5
HC90-2380	1.9	1.8	1.0	1.3	2.1	1.3	3.5	---	2.0	2.5
HC90-2586	1.9	1.5	1.0	1.3	1.6	1.3	3.5	2.0	2.1	2.8
HC90-2806	1.8	1.3	1.0	1.0	1.9	1.3	3.3	1.0	1.6	3.8
HC91-3586	1.6	1.0	1.0	1.0	1.1	1.3	3.0	1.5	1.2	3.3
K1287	1.4	1.0	1.0	1.0	1.0	1.3	2.5	2.5	1.1	1.5
K1288	2.2	1.5	1.0	1.3	2.2	1.8	3.0	2.8	2.9	3.0
K1289	2.7	2.8	1.0	2.0	2.6	2.0	3.8	3.3	3.2	3.5
K1290	1.6	1.3	1.0	1.3	1.3	1.5	2.8	2.0	1.2	2.0
K1291	2.0	1.5	1.0	1.8	2.1	1.8	3.8	2.0	1.3	3.0
K1292	2.0	1.3	1.0	1.3	1.9	1.3	3.3	1.5	2.3	3.8
K1293	2.0	1.5	1.0	2.0	2.1	1.5	3.3	1.5	2.3	2.5
K1294	2.5	2.3	1.0	2.3	2.1	1.5	3.8	2.3	2.3	4.5
K1295	2.3	1.0	1.0	1.3	2.8	1.8	4.0	2.5	2.9	3.5
K1296	1.5	1.3	1.0	1.0	1.2	1.3	2.5	2.0	1.5	1.5
LN91-1754	1.6	1.0	1.0	1.0	1.0	1.5	3.8	2.0	1.3	2.0
LN91-2176	1.4	1.0	1.0	1.0	1.0	1.5	3.0	1.5	1.4	1.5
LN91-2883	1.5	1.0	1.0	1.3	1.0	1.3	3.0	1.5	1.5	2.3
LN91-2914	1.4	1.0	1.0	1.0	1.0	1.3	2.5	2.3	1.1	1.0
LN91-3120	2.0	1.0	1.0	1.3	2.0	1.3	3.5	2.0	1.6	4.0

PRELIMINARY TEST IVA, 1994

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	35	36	34	32	44	26	37	31	36	35
KS4694 (L)	39	38	42	39	46	28	43	35	40	40
Spencer (IV)	38	40	40	42	47	24	38	33	37	38
C1892	35	39	38	34	42	23	33	34	36	36
C1893	38	39	40	35	49	25	42	35	40	35
C1894	37	39	38	35	38	27	39	38	42	37
C1895	35	36	34	37	44	24	39	32	33	34
C1897	34	39	32	34	39	21	37	32	35	36
C1898	39	43	41	38	46	26	40	38	40	39
C1899	38	42	39	34	46	26	37	35	42	40
HC86-3428	37	40	38	36	42	28	38	37	37	39
HC88-4332	45	51	47	43	45	36	48	41	48	42
HC90-2353	41	45	41	35	51	30	42	39	38	44
HC90-2380	42	44	46	37	51	30	46	--	40	39
HC90-2586	43	46	46	39	54	34	45	37	42	42
HC90-2806	38	40	41	35	46	27	41	31	38	40
HC91-3586	35	36	39	35	40	26	34	33	35	38
K1287	35	37	38	34	42	25	34	35	35	35
K1288	40	41	45	40	41	32	40	39	40	40
K1289	39	46	42	37	44	30	39	37	38	36
K1290	35	39	34	38	40	26	34	35	34	37
K1291	41	46	43	42	47	32	39	38	41	37
K1292	36	39	35	36	45	26	37	33	36	36
K1293	40	45	45	40	50	30	40	36	38	39
K1294	40	43	43	39	47	37	34	38	38	37
K1295	38	39	38	34	44	28	39	36	44	39
K1296	37	43	37	35	46	24	37	36	39	40
LN91-1754	35	37	35	35	41	24	39	35	35	36
LN91-2176	37	39	36	39	44	27	38	35	37	37
LN91-2883	35	40	32	39	40	24	39	28	35	38
LN91-2914	33	32	34	34	42	22	34	32	32	34
LN91-3120	34	36	35	39	41	23	32	35	31	35

PRELIMINARY TEST IVA, 1994

SEED QUALITY (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.4	1.0	1.5	1.5	2.0	2.0	1.0	2.0	1.0	1.0
KS4694 (L)	1.3	1.0	1.8	1.0	2.0	1.0	1.0	2.0	1.0	1.0
Spencer (IV)	1.7	1.0	2.0	2.0	3.0	2.0	1.0	2.0	1.0	1.0
C1892	1.4	1.0	1.5	1.0	2.0	2.0	1.5	2.0	1.0	1.0
C1893	1.6	1.0	2.0	2.0	3.0	1.0	1.5	2.0	1.0	1.0
C1894	1.8	2.0	2.3	1.5	3.0	2.0	1.0	2.0	1.0	1.0
C1895	1.6	1.0	1.5	2.0	2.0	2.0	1.0	3.0	1.0	1.0
C1897	1.8	2.0	1.5	2.0	2.0	2.0	2.0	3.0	1.0	1.0
C1898	1.9	2.0	1.5	2.0	3.0	2.0	1.8	3.0	1.0	1.0
C1899	1.8	1.0	1.8	1.5	3.0	2.0	2.0	3.0	1.0	1.0
HC86-3428	1.3	1.0	1.8	1.0	2.0	2.0	1.3	1.0	1.0	1.0
HC88-4332	1.6	1.0	2.0	1.5	2.0	2.0	1.5	2.0	1.0	1.0
HC90-2353	1.6	2.0	1.5	1.5	3.0	1.0	1.5	2.0	1.0	1.0
HC90-2380	2.0	2.0	2.0	2.5	3.0	2.0	1.8	---	1.5	1.0
HC90-2586	1.4	1.0	1.5	2.0	2.0	2.0	1.3	1.0	1.0	1.0
HC90-2806	1.3	1.0	1.5	1.5	2.0	1.0	1.0	2.0	1.0	1.0
HC91-3586	1.7	1.0	2.3	1.5	3.0	2.0	1.8	2.0	1.0	1.0
K1287	1.6	1.0	2.0	2.0	3.0	1.0	1.0	2.0	1.0	1.0
K1288	1.7	1.0	1.8	1.5	3.0	2.0	1.0	3.0	1.0	1.0
K1289	1.5	1.0	1.5	1.5	2.0	2.0	1.3	2.0	1.0	1.0
K1290	1.6	1.0	2.0	1.5	3.0	2.0	1.0	2.0	1.0	1.0
K1291	1.3	1.0	1.5	1.5	2.0	1.0	1.0	2.0	1.0	1.0
K1292	1.7	1.0	1.5	1.5	3.0	2.0	1.0	3.0	1.0	1.0
K1293	1.8	1.0	2.3	2.0	3.0	2.0	1.0	2.0	1.0	1.5
K1294	1.5	1.0	1.8	2.0	2.0	2.0	1.0	2.0	1.0	1.0
K1295	1.6	1.0	1.5	1.5	3.0	2.0	1.5	2.0	1.0	1.0
K1296	1.4	1.0	2.3	1.5	2.0	1.0	1.0	2.0	1.0	1.0
LN91-1754	1.3	1.0	1.5	1.5	2.0	1.0	1.0	2.0	1.0	1.0
LN91-2176	1.8	2.0	2.0	2.0	3.0	2.0	1.5	2.0	1.0	1.0
LN91-2883	1.5	1.0	1.5	1.5	2.0	2.0	1.5	2.0	1.0	1.0
LN91-2914	1.8	2.0	2.0	2.5	2.0	2.0	1.5	2.0	1.0	1.5
LN91-3120	1.9	2.0	1.8	2.0	3.0	2.0	1.5	3.0	1.0	1.0

PRELIMINARY TEST IVA, 1994

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	14.5	13.6	16.8	13.9	14.5	14.3	14.9	13.0	15.8	13.9
KS4694 (L)	17.7	16.9	18.5	19.1	18.7	17.8	18.6	16.0	17.8	16.0
Spencer (IV)	18.5	17.5	22.4	18.9	18.1	18.7	17.1	18.0	20.0	15.9
C1892	16.7	16.2	19.5	17.6	16.0	15.8	16.6	15.0	17.1	16.1
C1893	18.4	18.2	20.5	21.7	18.9	18.5	18.0	14.0	18.3	17.8
C1894	19.9	18.2	22.1	21.4	20.5	19.3	20.2	16.0	22.1	19.4
C1895	18.0	18.2	20.5	17.9	19.2	17.3	18.0	15.0	17.8	17.7
C1897	18.8	18.8	21.1	18.4	18.8	18.2	19.2	16.0	19.8	18.6
C1898	16.2	13.7	17.3	18.6	16.9	16.6	15.9	15.0	16.3	15.2
C1899	17.8	16.8	19.8	18.0	17.6	18.2	18.2	17.0	17.8	16.7
HC86-3428	15.2	14.7	17.6	16.5	15.1	14.9	14.5	13.0	15.6	14.7
HC88-4332	16.1	15.3	18.2	18.1	16.1	15.0	16.3	14.0	17.1	14.5
HC90-2353	16.4	15.4	19.1	17.6	17.5	14.4	16.3	15.0	16.4	15.8
HC90-2380	19.2	17.1	21.6	19.2	20.0	20.1	18.6	----	19.1	17.5
HC90-2586	14.2	12.7	15.3	17.7	14.1	12.9	14.3	14.0	14.0	12.8
HC90-2806	15.2	13.8	16.9	17.1	16.9	13.8	15.1	13.0	16.0	14.4
HC91-3586	14.2	13.0	16.3	15.1	15.6	13.3	13.9	13.0	14.0	13.9
K1287	17.5	16.0	19.1	20.3	19.1	17.7	17.3	16.0	16.6	15.8
K1288	17.3	15.4	18.6	19.5	17.9	18.0	16.3	17.0	17.7	14.9
K1289	14.3	13.3	14.7	16.5	15.0	14.8	13.6	14.0	13.8	12.8
K1290	15.6	14.0	18.3	16.6	16.4	17.3	14.5	14.0	15.2	13.7
K1291	14.6	13.9	16.3	16.1	14.2	15.8	14.6	13.0	14.7	13.0
K1292	18.5	17.8	20.8	20.9	18.8	17.1	19.4	16.0	18.8	17.2
K1293	18.5	17.2	20.3	20.9	18.7	18.6	17.1	16.0	19.8	17.5
K1294	16.5	14.4	19.1	19.8	16.9	17.2	16.0	14.0	16.4	15.0
K1295	17.4	16.2	19.9	18.3	19.6	17.2	16.1	16.0	18.2	15.2
K1296	15.0	14.0	16.9	17.3	16.2	13.5	13.4	15.0	15.5	13.2
LN91-1754	16.2	15.4	18.1	15.9	16.6	15.8	16.6	13.0	18.0	16.0
LN91-2176	18.2	18.2	20.7	19.4	18.4	17.9	18.4	15.0	18.1	17.7
LN91-2883	16.6	16.5	18.9	16.7	15.0	17.1	17.3	14.0	17.8	16.3
LN91-2914	17.4	16.2	19.2	16.5	17.7	16.5	19.0	17.0	18.0	16.8
LN91-3120	17.6	16.8	20.0	18.4	18.0	16.3	18.6	15.0	18.1	17.0

PRELIMINARY TEST IVA, 1994

PROTEIN (%)

Strain	Mean 2 Tests	Urbana IL	Lafayette IN
Flyer (E)	42.3	40.6	44.0
KS4694 (L)	41.9	41.3	42.5
Spencer (IV)	42.2	41.7	42.6
C1892	41.3	40.4	42.2
C1893	42.2	40.9	43.4
C1894	42.9	42.2	43.5
C1895	41.3	40.8	41.8
C1897	41.4	38.9	43.8
C1898	40.7	39.7	41.6
C1899	41.7	41.2	42.1
HC86-3428	41.8	41.7	41.8
HC88-4332	41.9	41.0	42.7
HC90-2353	40.7	39.5	41.8
HC90-2380	42.1	40.8	43.3
HC90-2586	42.1	40.8	43.3
HC90-2806	42.3	40.0	44.5
HC91-3586	42.2	41.3	43.1
K1287	41.8	41.0	42.6
K1288	42.2	41.9	42.4
K1289	41.6	41.9	41.2
K1290	42.0	42.0	42.0
K1291	41.6	40.7	42.5
K1292	40.7	41.0	40.3
K1293	42.3	42.2	42.4
K1294	42.4	41.3	43.4
K1295	42.2	41.5	42.9
K1296	41.1	40.1	42.0
LN91-1754	41.6	40.7	42.5
LN91-2176	41.0	40.7	41.3
LN91-2883	41.4	40.5	42.3
LN91-2914	41.7	41.0	42.4
LN91-3120	41.6	40.6	42.6

PRELIMINARY TEST IVA, 1994

OIL (%)

Strain	Mean 2 Tests	Urbana IL	Lafayette IN
Flyer (E)	21.2	21.2	21.1
KS4694 (L)	20.6	20.3	20.9
Spencer (IV)	21.1	21.2	21.0
C1892	21.1	21.0	21.1
C1893	20.4	20.3	20.5
C1894	20.9	20.7	21.1
C1895	20.9	20.9	20.8
C1897	20.8	21.1	20.5
C1898	21.2	20.8	21.6
C1899	21.0	20.7	21.2
HC86-3428	21.5	21.4	21.5
HC88-4332	21.4	21.1	21.6
HC90-2353	20.8	20.7	20.8
HC90-2380	20.9	20.7	21.0
HC90-2586	20.8	20.5	21.0
HC90-2806	21.2	21.6	20.8
HC91-3586	20.7	20.7	20.6
K1287	21.0	21.0	20.9
K1288	20.9	20.6	21.1
K1289	20.7	21.1	20.3
K1290	21.1	21.1	21.0
K1291	20.8	20.9	20.6
K1292	21.2	21.2	21.1
K1293	21.0	21.0	21.0
K1294	20.9	20.4	21.4
K1295	21.4	21.4	21.3
K1296	21.2	21.0	21.4
LN91-1754	21.2	21.6	20.8
LN91-2176	20.6	20.7	20.5
LN91-2883	21.1	21.0	21.2
LN91-2914	21.5	21.6	21.4
LN91-3120	20.6	20.8	20.3

PRELIMINARY TEST IVB, 1994

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127[4] x Williams 82	BC3 F2	Rps1-k
KS4694 (L)	Sherman x Toano	F5	
Spencer (IV)	A75-305022 x Century	F5	
HS92-2689	A86-301024 x Resnik	F5	
HS92-2690	A86-301024 x Resnik	F5	
HS92-2774	GR8936 x (HM8580 x GR8936)	BC1 F5	
Ky91-0402	DeKalb Pfizer CX458 x Pioneer 9442	F5	
Ky91-0433	DeKalb Pfizer CX458 x Pioneer 9442	F5	
Ky91-1062	Asgrow A4393 x Hutcheson	F5	
Ky91-1857	Asgrow A3935 x Hutcheson	F5	
LS91-910	LS80-6521 x Fayette	F5	SCN resis.
LS91-1207	LS80-6521 x Fayette	F5	SCN resis.
LS91-1210	LS80-6521 x Fayette	F5	SCN resis.
Md91-5228	Md83-5198 x Flyer	F5	
Md91-5258	Md83-5198 x Flyer	F5	
Md91-5931	Morgan x Bass	F5	
SL90-4113	Burlison x Asgrow A3733	F5	
S91-7017	Pioneer P9341 x Asgrow A4393	F5	
S91-7138	Pioneer P9442 x Pioneer P9461	F5	
Ripley (dt1)	Hodgson x V68-1034	F5	dt1
C1900	C1762 x HC85-6724	F5	dt1
HC86-130	Pixie x HC78-676	F5	dt1
HC88-10	Ripley x Essex	F5	dt1
HC89-1640	Sprite 87 x (Sprite 87 x HC83-232-15)	F5	dt1
HC90-138PR	HC78-350 x Williams 82	F5	dt1
HC90-145PR	HC78-350 x Williams 82	F5	dt1
HC90-196	Sprite 87 x HC80-1756	F5	dt1
HC90-288	Resnik x Essex	F5	dt1
HC90-1879	S82-1443 x HC76-676 BC	F5	dt1
HC90-2117	Essex x Hobbit 87	F5	dt1
HC90-2292	S82-1443 x Sprite 87	F5	dt1
HC90-2318	HC78-676 BC x Essex	F5	dt1

PRELIMINARY TEST IVB, 1994

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Custar Root Rot Race 25	PR Lafayette Race 7	PS Laf. a %
Flyer (E)	WTTIYBlI	1	3.9	R	8
KS4694 (L)	WGBrSYBfI	1	3.9	S	18
Spencer (IV)	WTBrDYBrI	1	4.1	S	9
HS92-2689	PGBrSYIbI	1	3.2	R	6
HS92-2690	PGTSYIbI	1	3.3	R	17
HS92-2774	P+WTTDYBlI	1	3.1	R	11
Ky91-0402	PTBrDYBlI	1	3.8	S	9
Ky91-0433	WTBrIYBlI	1	3.7	S	18
Ky91-1062	PTTSYBlI	1	2.0	S	13
Ky91-1857	WTBrIYBlI	1	2.2	S	3
LS91-910	WTTSYBlI	2	4.0	S	12
LS91-1207	WTTSYBlI	1	4.5	S	9
LS91-1210	PTTSYBlI	1	3.7	S	9
Md91-5228	PTTIYBlI	1	3.3	S	1
Md91-5258	PTTDYBlI	1	3.2	R	0
Md91-5931	WTTSYBlI	1	4.1	S	4
SL90-4113	WTTSYBlI	1	2.8	R	6
S91-7017	PTTSYBlI	1	3.6	S	12
S91-7138	WTBrSYBlI	1	3.6	S	9
Ripley (dtl)	PGTSYBfD	1	3.3	H	0
C1900	PTBrSYBlD	1	4.8	S	7
HC86-130	PTTSYBl+BrD	1	4.3	S	12
HC88-10	PGTSYBfD	1	3.8	S	3
HC89-1640	WTTDYBlD	2	3.9	R	2
HC90-138PR	PTTDYBlD	1	4.3	R	2
HC90-145PR	PTTDYBlD	1	4.1	R	4
HC90-196	WTTDYBlD	1	3.8	R	1
HC90-288	PTTSYBlD	1	5.1	S	5
HC90-1879	PTTSYBrD	2	4.1	R	7
HC90-2117	WTTSYBlD	1	3.9	R	4
HC90-2292	WTTSYBrD	1	3.8	S	1
HC90-2318	PTBrDYBlD	1	3.6	S	8

PRELIMINARY TEST IVB, 1994

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 2 %	 Oil 2 %
Flyer (E)	57.3	8	-5.8	1.3	33	1.4	15.1	41.4	21.2
KS4694 (L)	59.9	2	4.8	1.4	35	1.4	17.7	41.9	20.9
Spencer (IV)	56.8	11	09/27	1.2	36	1.5	18.8	41.6	21.4
HS92-2689	56.1	13	-6.9	1.6	35	1.5	15.5	41.2	20.9
HS92-2690	56.0	14	-6.9	1.6	34	1.4	15.4	41.4	20.7
HS92-2774	54.1	20	-6.5	1.7	41	1.6	16.4	42.0	21.0
Ky91-0402	58.9	3	3.9	1.5	36	1.5	15.2	40.8	20.9
Ky91-0433	57.9	5	0.0	1.3	35	1.6	16.8	41.2	20.7
Ky91-1062	56.6	12	2.0	1.5	35	1.4	18.7	40.7	20.9
Ky91-1857	61.2	1	3.3	2.0	41	1.4	16.7	41.9	20.9
LS91-910	50.9	27	-1.0	1.5	38	1.4	16.9	41.8	20.9
LS91-1207	52.2	25	0.8	1.8	37	1.6	16.8	41.5	21.1
LS91-1210	50.6	29	-2.6	1.5	35	1.9	15.1	40.6	20.8
Md91-5228	53.1	23	-2.5	1.4	39	1.4	14.1	41.7	20.7
Md91-5258	52.8	24	2.6	1.2	34	1.3	15.0	42.7	20.4
Md91-5931	50.6	29	0.4	1.4	33	1.4	16.8	41.7	21.5
SL90-4113	57.5	7	3.4	1.5	39	1.8	18.4	42.1	20.4
S91-7017	55.3	17	-2.6	1.4	35	1.4	16.4	42.4	20.8
S91-7138	58.5	4	-1.8	1.4	34	1.4	15.4	42.2	20.9
Ripley (dtl)	57.6	6	-3.8	1.3	22	1.2	14.2	40.8	20.7
C1900	55.9	15	-3.3	1.1	20	1.4	15.8	41.3	20.8
HC86-130	57.0	10	-5.9	1.1	20	1.6	17.0	41.1	21.0
HC88-10	55.5	16	-5.1	1.4	23	1.8	17.3	40.2	21.0
HC89-1640	46.9	32	-8.8	1.3	20	1.6	17.6	42.0	21.0
HC90-138PR	48.9	31	-5.6	1.1	18	1.8	17.6	41.8	21.5
HC90-145PR	53.4	21	-2.6	1.0	19	1.7	17.8	42.2	21.2
HC90-196	57.3	8	-4.1	1.1	21	1.3	16.6	40.2	21.3
HC90-288	54.4	18	-13.3	1.2	19	1.5	14.8	40.3	21.1
HC90-1879	51.3	26	-5.8	1.1	22	1.9	16.6	40.8	20.5
HC90-2117	50.9	27	-2.5	1.0	19	1.4	16.3	40.3	20.8
HC90-2292	54.4	18	-1.4	1.3	22	1.5	17.3	41.5	20.6
HC90-2318	53.4	21	-1.8	1.1	21	1.3	13.5	41.6	20.3

132.4 Days After Planting

PRELIMINARY TEST IVB, 1994

YIELD (bu/a)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Vin-* cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	57.3	51.9	59.1	23.8	66.7	34.6	64.7	37.7	64.3	79.3
KS4694 (L)	59.9	58.0	49.9	22.3	60.2	50.2	67.8	49.9	67.7	75.1
Spencer (IV)	56.8	47.2	65.7	27.7	60.6	38.4	64.2	37.1	67.6	73.3
HS92-2689	56.1	59.7	54.9	26.3	63.6	35.5	61.3	41.5	62.7	69.3
HS92-2690	56.0	53.9	59.7	19.8	64.1	31.3	63.4	35.2	63.8	76.7
HS92-2774	54.1	49.7	57.4	25.1	69.3	35.1	56.9	31.9	59.2	73.0
Ky91-0402	58.9	64.9	61.3	34.0	69.0	43.5	60.4	44.5	56.2	71.1
Ky91-0433	57.9	59.5	56.5	34.8	63.3	41.1	59.8	39.4	67.9	75.9
Ky91-1062	56.6	52.5	55.4	36.1	66.0	47.1	58.4	43.9	61.6	68.1
Ky91-1857	61.2	64.7	50.5	38.6	69.0	48.9	64.1	49.9	61.4	81.3
LS91-910	50.9	55.1	48.9	28.8	57.8	31.7	54.0	38.5	58.4	62.8
LS91-1207	52.2	57.2	42.8	38.5	53.7	39.9	52.9	46.9	65.7	58.8
LS91-1210	50.6	55.5	52.0	31.9	49.3	33.2	54.6	32.9	61.9	65.6
Md91-5228	53.1	56.2	47.3	44.0	55.8	50.4	54.2	35.9	58.2	66.4
Md91-5258	52.8	59.4	49.9	22.4	64.8	39.5	52.7	32.0	57.7	66.3
Md91-5931	50.6	48.1	39.9	21.8	53.2	34.6	58.2	46.3	60.4	63.9
SL90-4113	57.5	59.7	52.4	40.1	63.3	46.2	56.0	42.2	67.9	72.1
S91-7017	55.3	53.6	57.7	25.6	65.7	38.2	59.7	28.2	66.4	73.1
S91-7138	58.5	62.7	54.4	34.9	62.1	38.4	62.9	38.3	70.8	78.4
Ripley (dtl)	57.6	62.4	49.7	28.6	73.0	39.5	51.7	50.6	67.1	66.6
C1900	55.9	54.0	53.6	22.7	67.6	42.4	54.2	42.0	60.7	72.9
HC86-130	57.0	59.9	50.6	22.4	52.9	50.0	52.8	45.5	70.7	73.6
HC88-10	55.5	57.3	55.2	14.1	61.1	44.9	52.7	36.4	60.9	75.4
HC89-1640	46.9	38.4	44.3	30.4	50.9	30.6	51.9	35.1	57.2	66.6
HC90-138PR	48.9	50.2	51.8	20.0	54.0	38.1	52.5	20.6	52.0	71.7
HC90-145PR	53.4	64.1	51.8	12.4	55.0	35.7	50.3	31.3	67.2	71.7
HC90-196	57.3	66.3	53.5	31.4	66.9	47.1	53.3	41.4	54.0	75.7
HC90-288	54.4	53.7	49.0	9.5	62.9	36.7	46.8	----	56.7	74.7
HC90-1879	51.3	53.3	50.6	26.8	46.2	47.3	53.8	29.1	64.7	65.7
HC90-2117	50.9	52.3	51.1	12.0	60.0	37.6	50.5	28.8	61.7	64.9
HC90-2292	54.4	53.3	50.0	20.5	60.1	40.3	53.8	34.6	70.5	72.9
HC90-2318	53.4	61.5	48.9	19.4	57.3	39.0	49.6	38.7	56.9	74.9
C.V. (%)		10.8	11.3	21.9	7.1	11.3	5.1	13.0	7.7	7.3
L.S.D. (5%)		12.3	ns	11.9	8.8	6.0	5.9	9.8	9.7	6.2
Row Sp. (In.)		30	30	26	30	30	30	30	15	7
Rows/Plot		4	4	4	4	4	4	4	6	8
Reps		2	2	2	2	2	2	2	2	2

* Data not included in the mean.

PRELIMINARY TEST IVB, 1994

YIELD RANK

Strain	Yield Rank	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	8	27	4	19	7	27	2	17	13	2
KS4694 (L)	2	13	23	23	19	2	1	3	6	8
Spencer (IV)	11	31	1	14	18	18	3	18	7	12
HS92-2689	13	9	10	16	12	25	7	11	15	21
HS92-2690	14	20	3	27	11	31	5	21	14	4
HS92-2774	20	29	6	18	2	26	13	26	23	14
Ky91-0402	3	2	2	8	3	10	8	7	30	20
Ky91-0433	5	11	7	7	13	12	9	13	4	5
Ky91-1062	12	25	8	5	8	6	11	8	18	22
Ky91-1857	1	3	21	3	3	4	4	2	19	1
LS91-910	27	18	27	12	22	30	18	15	24	31
LS91-1207	25	15	31	4	27	14	22	4	11	32
LS91-1210	29	17	15	9	31	29	15	24	16	28
Md91-5228	23	16	29	1	24	1	16	20	25	25
Md91-5258	24	12	23	21	10	15	24	25	26	26
Md91-5931	29	30	32	24	28	27	12	5	22	30
SL90-4113	7	9	14	2	13	8	14	9	4	17
S91-7017	17	22	5	17	9	20	10	30	10	13
S91-7138	4	5	11	6	16	18	6	16	1	3
Ripley (dtl)	6	6	25	13	1	15	28	1	9	23
C1900	15	19	12	20	5	11	16	10	21	15
HC86-130	10	8	19	21	29	3	23	6	2	11
HC88-10	16	14	9	29	17	9	24	19	20	7
HC89-1640	32	32	30	11	30	32	27	22	27	23
HC90-138PR	31	28	16	26	26	21	26	31	32	18
HC90-145PR	21	4	16	30	25	24	30	27	8	18
HC90-196	8	1	13	10	6	7	21	12	31	6
HC90-288	18	21	26	32	15	23	32	--	29	10
HC90-1879	26	23	19	15	32	5	19	28	12	27
HC90-2117	27	26	18	31	21	22	29	29	17	29
HC90-2292	18	23	22	25	20	13	19	23	3	15
HC90-2318	21	7	27	28	23	17	31	14	28	9

PRELIMINARY TEST IVB, 1994

MATURITY (date)

Strain	Mean 8 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	-5.8	-3	-6	-5		-13	-6	0	-4	-9
KS4694 (L)	4.8	5	3	0		4	5	8	7	6
Spencer (IV)	09/27	09/22	10/03	10/03		09/24	10/04	09/20	09/24	09/28
HS92-2689	-6.9	-3	-8	-12		-10	-6	-3	-4	-9
HS92-2690	-6.9	-3	-7	-5		-13	-9	-6	-3	-9
HS92-2774	-6.5	-4	-9	0		-15	-7	-5	-4	-8
Ky91-0402	3.9	6	4	5		3	1	3	4	5
Ky91-0433	0.0	2	2	-2		-2	-4	1	0	3
Ky91-1062	2.0	5	-5	1		2	0	6	3	4
Ky91-1857	3.3	7	-5	2		4	2	4	6	6
LS91-910	-1.0	0	-4	-3		-6	0	2	2	1
LS91-1207	0.8	3	-4	-4		-2	0	2	6	5
LS91-1210	-2.6	-2	-4	-5		-9	-2	1	3	-3
Md91-5228	-2.5	1	-6	-6		-11	-5	2	2	3
Md91-5258	2.6	8	2	-1		-2	2	3	6	3
Md91-5931	0.4	3	-3	0		-4	-1	2	3	3
SL90-4113	3.4	7	2	-2		3	0	6	5	6
S91-7017	-2.6	-2	-3	-2		-7	-5	1	1	-4
S91-7138	-1.8	1	-3	-5		-7	-2	-1	1	2
Ripley (dtl)	-3.8	1	-7	-5		-7	-8	3	-3	-4
C1900	-3.3	1	-6	-7		-7	-4	-2	-1	0
HC86-130	-5.9	-1	-7	-13		-9	-6	-2	-1	-8
HC88-10	-5.1	2	-8	-9		1	-6	-4	-8	-9
HC89-1640	-8.8	-5	-10	-14		-12	-8	-3	-7	-11
HC90-138PR	-5.6	2	-7	-12		-8	-7	0	-4	-9
HC90-145PR	-2.6	1	-2	-1		-8	-6	0	-1	-4
HC90-196	-4.1	1	-7	-7		-6	-6	3	-3	-8
HC90-288	-13.3	-4	-14	-19		-16	-14	-	-11	-15
HC90-1879	-5.8	-1	-8	-13		-6	-4	-2	-3	-9
HC90-2117	-2.5	3	-7	-2		-6	-4	1	-3	-2
HC90-2292	-1.4	3	-6	0		-2	-2	2	-1	-5
HC90-2318	-1.8	5	-6	-2		-4	-4	-4	0	1
Date Pl.	05/17	05/25	05/18	05/19		05/11	06/02	05/11	05/16	05/10
Days to Mat.	132.4	120	138	137		136	124	132	131	141

PRELIMINARY TEST IVB, 1994

LODGING (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.3	1.0	1.1	1.0	1.3	1.5	1.5	1.5	1.3	1.8
KS4694 (L)	1.4	1.0	1.0	1.0	1.2	1.5	2.0	1.5	1.3	2.3
Spencer (IV)	1.2	1.0	1.0	1.0	1.0	1.0	1.8	1.5	1.2	1.5
HS92-2689	1.6	1.0	1.0	1.0	1.7	1.3	2.0	2.0	1.5	2.8
HS92-2690	1.6	1.0	1.0	1.0	1.9	1.5	2.0	1.5	1.9	2.3
HS92-2774	1.7	1.0	1.0	1.0	1.7	1.8	3.0	1.8	1.9	2.0
Ky91-0402	1.5	1.0	1.0	1.0	1.8	1.3	2.0	1.8	1.4	1.8
Ky91-0433	1.3	1.0	1.0	1.0	1.0	1.5	1.5	1.8	1.3	1.5
Ky91-1062	1.5	1.0	1.0	1.0	1.7	1.3	2.0	1.5	2.0	2.3
Ky91-1857	2.0	1.0	1.0	1.0	1.8	2.0	3.3	2.8	2.5	2.8
LS91-910	1.5	1.0	1.0	1.0	1.6	1.3	2.0	2.0	1.6	2.3
LS91-1207	1.8	1.0	1.0	1.0	1.8	1.5	2.0	2.3	2.0	3.8
LS91-1210	1.5	1.0	1.0	1.0	1.9	1.8	2.0	1.8	1.5	1.8
Md91-5228	1.4	1.0	1.0	1.0	1.7	1.3	1.8	1.5	1.4	2.3
Md91-5258	1.2	1.0	1.0	1.0	1.0	1.5	1.5	1.8	1.2	1.0
Md91-5931	1.4	1.0	1.0	1.0	1.0	1.5	1.5	1.8	1.2	2.3
SL90-4113	1.5	1.0	1.0	1.0	1.7	1.8	2.0	1.8	1.4	1.8
S91-7017	1.4	1.0	1.0	1.0	1.4	1.8	2.0	1.8	1.4	1.5
S91-7138	1.4	1.0	1.0	1.0	1.1	1.3	2.0	2.0	1.2	2.0
Ripley (dtl)	1.3	1.0	1.0	1.0	1.9	1.8	1.0	1.0	1.6	1.5
C1900	1.1	1.0	1.0	1.0	1.1	1.8	1.0	1.0	1.0	1.0
HC86-130	1.1	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0
HC88-10	1.4	1.0	1.0	1.0	1.0	2.3	1.0	1.0	1.2	2.8
HC89-1640	1.3	1.0	1.0	1.0	1.1	2.5	1.0	1.0	1.0	1.8
HC90-138PR	1.1	1.0	1.0	1.0	1.4	1.3	1.0	1.0	1.0	1.0
HC90-145PR	1.0	1.0	1.0	1.0	1.4	1.0	1.0	1.0	1.0	1.0
HC90-196	1.1	1.0	1.0	1.0	1.4	1.5	1.0	1.0	1.0	1.0
HC90-288	1.2	1.0	1.0	1.0	1.3	2.3	1.0	---	1.1	1.0
HC90-1879	1.1	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0
HC90-2117	1.0	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0
HC90-2292	1.3	1.0	1.0	1.0	1.0	2.5	1.0	1.0	1.3	1.5
HC90-2318	1.1	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.3

PRELIMINARY TEST IVB, 1994

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	33	34	35	22	43	30	32	31	35	34
KS4694 (L)	35	37	39	28	44	28	38	29	38	38
Spencer (IV)	36	34	38	32	47	28	38	31	38	41
HS92-2689	35	37	35	21	47	27	37	33	39	38
HS92-2690	34	38	38	25	42	26	33	33	37	36
HS92-2774	41	44	47	34	50	33	41	40	43	39
Ky91-0402	36	36	41	26	48	26	36	34	37	36
Ky91-0433	35	34	36	30	40	28	35	33	38	40
Ky91-1062	35	34	33	26	43	30	36	31	41	40
Ky91-1857	41	47	39	31	49	33	42	40	42	42
LS91-910	38	40	38	31	48	30	41	35	40	37
LS91-1207	37	39	35	33	42	27	41	37	39	36
LS91-1210	35	35	32	34	46	27	37	32	37	37
Md91-5228	39	40	39	35	51	35	38	32	43	41
Md91-5258	34	36	35	23	42	27	36	31	37	43
Md91-5931	33	31	34	25	42	24	34	32	37	36
SL90-4113	39	40	41	35	43	36	38	33	40	41
S91-7017	35	36	39	29	42	27	37	29	39	38
S91-7138	34	39	33	31	42	24	36	30	34	35
Ripley (dtl)	22	23	24	21	23	21	14	20	27	26
C1900	20	19	23	17	19	22	13	16	22	25
HC86-130	20	21	22	17	22	23	12	16	21	25
HC88-10	23	23	27	20	23	25	16	17	27	27
HC89-1640	20	20	21	18	19	24	14	17	24	25
HC90-138PR	18	19	22	16	18	19	13	14	19	22
HC90-145PR	19	20	22	14	19	20	12	15	24	24
HC90-196	21	23	22	15	22	23	15	18	27	26
HC90-288	19	21	21	13	19	24	11	--	20	24
HC90-1879	22	24	24	18	24	23	14	17	27	25
HC90-2117	19	19	23	16	21	22	14	13	26	21
HC90-2292	22	23	24	18	22	24	14	18	26	32
HC90-2318	21	22	25	13	22	23	13	14	24	29

PRELIMINARY TEST IVB, 1994

SEED QUALITY (score)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	1.4	1.0	1.8	1.0	2.0	1.0	1.5	2.0	1.0	1.0
KS4694 (L)	1.4	1.0	1.8	2.0	1.0	2.0	1.0	2.0	1.0	1.0
Spencer (IV)	1.5	1.0	1.8	2.0	2.0	1.0	1.3	2.0	1.0	1.0
HS92-2689	1.5	1.0	2.0	1.5	3.0	2.0	1.0	1.0	1.0	1.0
HS92-2690	1.4	1.0	1.8	1.5	2.0	1.0	1.3	2.0	1.0	1.0
HS92-2774	1.6	1.0	1.5	1.5	2.0	2.0	1.5	3.0	1.0	1.0
Ky91-0402	1.5	1.0	2.0	1.5	3.0	1.0	1.0	2.0	1.0	1.0
Ky91-0433	1.6	1.0	1.8	3.0	3.0	1.0	1.0	2.0	1.0	1.0
Ky91-1062	1.4	1.0	1.5	1.5	2.0	1.0	1.3	2.0	1.0	1.0
Ky91-1857	1.4	1.0	1.5	1.5	2.0	1.0	1.3	2.0	1.0	1.0
LS91-910	1.4	1.0	2.3	1.5	2.0	1.0	1.0	2.0	1.0	1.0
LS91-1207	1.6	1.0	1.8	2.0	3.0	1.0	1.8	2.0	1.0	1.0
LS91-1210	1.9	2.0	1.8	3.5	2.0	1.0	1.8	3.0	1.0	1.0
Md91-5228	1.4	1.0	1.8	1.5	2.0	1.0	1.5	2.0	1.0	1.0
Md91-5258	1.3	1.0	1.8	1.5	2.0	1.0	1.0	1.0	1.0	1.0
Md91-5931	1.4	1.0	1.5	1.5	2.0	1.0	1.3	2.0	1.0	1.0
SL90-4113	1.8	2.0	2.8	1.5	3.0	1.0	2.0	2.0	1.0	1.0
S91-7017	1.4	1.0	1.8	1.5	2.0	1.0	1.5	2.0	1.0	1.0
S91-7138	1.4	1.0	1.5	1.5	2.0	1.0	1.5	2.0	1.0	1.0
Ripley (dtl)	1.2	1.0	1.5	1.5	2.0	1.0	1.0	1.0	1.0	1.0
C1900	1.4	1.0	1.5	1.5	2.0	1.0	1.3	2.0	1.0	1.0
HC86-130	1.6	1.0	2.3	2.0	3.0	1.0	1.0	2.0	1.0	1.0
HC88-10	1.8	2.0	2.0	2.0	3.0	1.0	1.8	2.0	1.0	1.0
HC89-1640	1.6	2.0	1.5	1.5	1.0	2.0	1.5	3.0	1.0	1.0
HC90-138PR	1.8	2.0	1.8	2.5	2.0	2.0	1.0	3.0	1.0	1.0
HC90-145PR	1.7	1.0	1.8	2.5	2.0	2.0	2.0	2.0	1.0	1.0
HC90-196	1.3	1.0	1.5	1.5	2.0	1.0	1.0	2.0	1.0	1.0
HC90-288	1.5	2.0	1.8	2.0	2.0	1.0	1.5	---	1.0	1.0
HC90-1879	1.9	2.0	2.3	2.0	3.0	1.0	2.0	3.0	1.0	1.0
HC90-2117	1.4	1.0	1.5	2.0	2.0	1.0	1.3	2.0	1.0	1.0
HC90-2292	1.5	1.0	1.8	1.5	3.0	1.0	1.0	2.0	1.0	1.0
HC90-2318	1.3	1.0	1.5	1.5	2.0	1.0	1.0	2.0	1.0	1.0

PRELIMINARY TEST IVB, 1994

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belle-ville IL	Urbana IL	Vin-cennes IN	Man-hattan KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	MT. Orab OH	S.Charle-ston OH
Flyer (E)	15.1	12.8	17.0	16.5	15.2	13.2	15.3	16.0	15.6	14.6
KS4694 (L)	17.7	16.9	17.8	19.4	18.3	17.8	18.0	18.0	17.4	15.7
Spencer (IV)	18.8	18.0	20.9	19.9	16.9	18.7	19.4	16.0	19.2	19.8
HS92-2689	15.5	14.5	17.9	17.1	16.4	14.3	15.0	14.0	16.3	14.1
HS92-2690	15.4	13.6	18.0	16.8	14.3	13.1	15.1	13.0	19.2	15.3
HS92-2774	16.4	14.7	18.0	18.2	17.0	14.9	17.0	15.0	17.4	15.2
Ky91-0402	15.2	14.3	15.6	19.3	14.9	15.8	14.6	15.0	13.2	13.8
Ky91-0433	16.8	15.1	18.5	18.7	15.9	16.9	16.0	17.0	16.5	16.4
Ky91-1062	18.7	15.8	20.2	19.8	20.3	16.7	17.6	21.0	18.7	17.9
Ky91-1857	16.7	16.0	18.1	19.7	15.4	17.0	16.0	16.0	16.9	15.0
LS91-910	16.9	15.5	18.7	20.2	17.6	15.4	16.1	18.0	16.1	14.4
LS91-1207	16.8	16.6	18.6	19.7	14.3	16.8	16.1	16.0	17.3	15.5
LS91-1210	15.1	15.4	17.8	16.0	15.0	14.9	14.6	14.0	14.5	13.4
Md91-5228	14.1	13.1	14.5	15.4	13.4	14.6	12.6	16.0	14.2	13.0
Md91-5258	15.0	14.1	14.8	16.8	15.8	14.9	14.8	15.0	14.8	13.6
Md91-5931	16.8	15.4	16.6	19.1	17.5	15.3	16.4	18.0	16.4	16.6
SL90-4113	18.4	17.7	18.2	21.0	18.1	18.3	18.0	18.0	19.1	17.3
S91-7017	16.4	14.2	17.7	18.1	16.8	17.5	16.4	13.0	17.6	16.3
S91-7138	15.4	13.6	17.6	17.2	14.8	15.6	14.5	15.0	15.3	14.7
Ripley (dtl)	14.2	13.7	14.9	17.2	12.6	14.5	14.0	16.0	12.8	11.7
C1900	15.8	15.2	17.6	17.5	14.4	16.1	15.5	17.0	14.5	14.2
HC86-130	17.0	17.1	18.7	17.5	16.1	17.6	15.8	18.0	16.8	15.7
HC88-10	17.3	17.4	19.3	16.4	18.5	17.7	17.1	16.0	16.8	16.2
HC89-1640	17.6	17.5	19.2	17.1	17.7	15.1	16.6	21.0	17.8	16.4
HC90-138PR	17.6	17.3	19.6	17.7	16.9	17.2	17.0	19.0	16.7	16.6
HC90-145PR	17.8	17.9	19.3	19.9	17.1	16.5	18.0	19.0	16.7	15.6
HC90-196	16.6	16.4	18.9	17.1	16.0	17.2	15.9	17.0	14.9	16.0
HC90-288	14.8	13.7	15.2	15.3	16.4	13.9	14.6	----	14.4	14.6
HC90-1879	16.6	17.1	19.2	17.4	16.1	17.4	15.7	17.0	14.9	14.4
HC90-2117	16.3	14.7	17.6	17.1	16.5	16.2	15.0	20.0	15.6	13.6
HC90-2292	17.3	16.3	18.7	19.5	17.4	18.0	15.5	18.0	16.9	15.1
HC90-2318	13.5	13.2	14.2	15.3	14.2	13.9	12.0	16.0	11.8	11.1

PRELIMINARY TEST IVB, 1994

PROTEIN (%)

Strain	Mean 2 Tests	Urbana IL	Lafayette IN
Flyer (E)	41.4	41.2	41.6
KS4694 (L)	41.9	41.7	42.1
Spencer (IV)	41.6	41.6	41.5
HS92-2689	41.2	40.7	41.6
HS92-2690	41.4	41.0	41.7
HS92-2774	42.0	40.6	43.4
Ky91-0402	40.8	39.6	42.0
Ky91-0433	41.2	40.3	42.0
Ky91-1062	40.7	39.8	41.5
Ky91-1857	41.9	40.8	42.9
LS91-910	41.8	40.9	42.6
LS91-1207	41.5	39.9	43.1
LS91-1210	40.6	40.0	41.2
Md91-5228	41.7	41.1	42.3
Md91-5258	42.7	41.8	43.6
Md91-5931	41.7	41.7	41.7
SL90-4113	42.1	42.0	42.1
S91-7017	42.4	41.4	43.3
S91-7138	42.2	41.2	43.2
Ripley (dtl)	40.8	38.9	42.6
C1900	41.3	40.2	42.4
HC86-130	41.1	40.1	42.1
HC88-10	40.2	38.0	42.4
HC89-1640	42.0	40.4	43.5
HC90-138PR	41.8	40.1	43.5
HC90-145PR	42.2	41.9	42.5
HC90-196	40.2	38.7	41.6
HC90-288	40.3	39.5	41.1
HC90-1879	40.8	38.9	42.7
HC90-2117	40.3	38.3	42.3
HC90-2292	41.5	40.3	42.6
HC90-2318	41.6	41.0	42.1

PRELIMINARY TEST IVB, 1994

OIL (%)

Strain	Mean 2 Tests	Urbana IL	Lafayette IN
Flyer (E)	21.2	21.0	21.3
KS4694 (L)	20.9	20.5	21.2
Spencer (IV)	21.4	21.5	21.3
HS92-2689	20.9	20.5	21.3
HS92-2690	20.7	20.7	20.6
HS92-2774	21.0	21.1	20.9
Ky91-0402	20.9	20.9	20.9
Ky91-0433	20.7	21.1	20.2
Ky91-1062	20.9	21.4	20.3
Ky91-1857	20.9	21.1	20.6
LS91-910	20.9	20.9	20.9
LS91-1207	21.1	21.2	20.9
LS91-1210	20.8	20.8	20.7
Md91-5228	20.7	20.0	21.3
Md91-5258	20.4	20.1	20.7
Md91-5931	21.5	20.9	22.0
SL90-4113	20.4	20.0	20.8
S91-7017	20.8	20.6	20.9
S91-7138	20.9	21.0	20.8
Ripley (dtl)	20.7	20.4	21.0
C1900	20.8	20.4	21.2
HC86-130	21.0	20.9	21.1
HC88-10	21.0	21.0	20.9
HC89-1640	21.0	20.5	21.4
HC90-138PR	21.5	21.9	21.1
HC90-145PR	21.2	21.3	21.1
HC90-196	21.3	21.4	21.2
HC90-288	21.1	20.5	21.6
HC90-1879	20.5	20.2	20.8
HC90-2117	20.8	21.0	20.6
HC90-2292	20.6	20.5	20.7
HC90-2318	20.3	20.1	20.4